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WASTEWATER CHARACTERIZATION AND SURFACE WATER INFILTRATION SURVEY FOR 28TH BOMBARDMENT AND 99TH TRAINER WING, ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA

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I would like to thank Captain Paul Legendre for the leadership and foresight to have our team instruct his environmental staff in sample selection and collection. These skills will enable the bioenvironmental engineering shop to continue the vigilance of environmental monitoring to ensure regulatory compliance at Ellsworth Air Force Base.

I would also like to acknowledge the great team effort by TSgt Mary Fields, SSgt Pete Davis, and SrA Leo Longoria. Selecting, packing, unpacking, setting up, cleaning, and repacking 4200 pounds of sampling and field laboratory equipment is no small effort, especially during a snow storm. In addition, I would to thank Ms Melissa Lopez for compiling over 400 pages of analyses into the 26 data tables used in this report.

WASTEWATER CHARACTERIZATION and INFILTRATION SURVEY, ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA

INTRODUCTION

Personnel from the Armstrong Laboratory, Water Quality Function conducted a wastewater characterization and stormwater infiltration survey at Ellsworth Air Force Base South Dakota from 18-29 Oct 93. The purpose of this survey was to characterize the wastewater going to and the effluent discharging from the Waste Water Treatment Facility (WWTF) into Box Elder Creek. In particular, we wanted to determine the potential sources of Total Suspended Solids (TSS), and Oils and Greases (O&G), that have resulted in a recent Notice of Violations (NOVs). In addition, we identified potential cross-connections from the stormwater to the sanitary sewer. These suspected cross connections cause elevated influent rates during precipitation events, and possibly resulted in greater solids loading into the plant that also may contribute to NOVs regarding TSS and O&G.

The wastewater characterization survey was requested by Lt Col David L. Potts of HQ ACC/SGP. Copies of the request and response letters are at Appendix A.

Armstrong Laboratory personnel performing the survey included Capt Christopher A. Williston, TSgt Mary K. Fields, SSgt Robert P. Davis, and SrA Leo Longoria. SSgt Theresa Miller and Airman Barbara Fillipello, from the Ellsworth Bioenvironmental Shop assisted in the daily sampling and sample preparation of five sampling sites during this survey. This effort was in cooperation with the BEE shop to train them in site and sample selection, and sampling protocol.

DISCUSSION

Background

Ellsworth AFB is located 6-miles east of Rapid City and immediately North of Box Elder and Intestate 90. The majority of the base is located on a mesa. The landscape surrounding the base is rolling hills and predominately farm and ranch land. The base supports the 28th bombardment wing and the 99th trainer wing.

The installation is divided into four main areas. The area along the flightline consists of many rows of maintenance hangars; the center of the base consists of logistical support and services; there is a missile maintenance complex located in

the northwest corner; and the north, northeast corner and east side consist of housing.

Wastewater Sources

There are two influent lines and one effluent line connected to the WWTF. The sanitary line collects wastewater from the housing area, missile maintenance area, flightline and the center of the base. In addition it also collects sewage from approximately 20 civilian mobile homes located in Box Elder. The industrial line collects from facilities along the flightline. Before the industrial line enters the WWTF it passes through a 16,000 gallon oil/water separator. The effluent line discharges into Box Elder Creek, which drains the base surface water runoff and runoff from the base's golf course.

There are other small facilities located in remote areas of the base that utilize a sanitary leach field. These facilities were not evaluated in this study.

Wastewater Permit Standards

Currently Ellsworth Air Force Base has a National Pollutant Discharge Elimination System Permit (NPDES) to discharge into Box Elder Creek. The State of South Dakota has standard discharge standards that must be adhered to by all industrial and domestic dischargers.

The Industrial Pretreatment Standards, which fall under the NPDES Permitting Program, impose general and specific prohibitions on industrial dischargers to Federally Owned Treatment Works (FOTWs) which fall into specific categories of industries. Categorical discharge limitations established by the Industrial Pretreatment Standards have been promulgated for certain categories of industries. The industrial categories under which typical U.S. Air Force operations may fall include electroplating, metal finishing, photographic processing, and hospitals.

The general prohibitions on discharges from industrial users include (a) pollutants which create a fire or explosion hazard, (b) pollutants which will cause corrosive structural damage to the POTW, (c) solid or viscous pollutants in amounts which will obstruct flow in the FOTW resulting in interference, (d) any pollutant, including oxygen-demanding pollutants released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the FOTW, and (e) heat levels which will inhibit biological activity in the FOTW resulting in

interference. Ellsworth AFB discharges to a FOTW and must comply with federal, state and local regulations.

Ellsworth has a NPDES permit number SD0000281 to discharge into Box Elder Creek. The parameters that are monitored and reported monthly are Biochemical Oxygen Demand (5-Day), pH, Total Suspended Solids, Oil and Grease (0&G) both freon extractable and visible, Flow, and Fecal Coliform.

Sampling Strategy

AL/OEBW conducted a presurvey from 4-6 August 1993. Sampling site locations were discussed and selected during the presurvey based on the utility maps provided by the BEE shop. The sites were selected based on potential sources of contaminants, sewage branch lines off key industrial areas, and flow. These sites were inspected during the presurvey to insure accessibility and sufficient flow rates. A copy of the sampling strategy is at Appendix B. A map showing the locations of the wastewater sampling sites is enclosed in Appendix C.

A description of the 18 sampling sites is as follows:

Site 1: Plant Effluent, Located east of the Wastewater Treatment in the effluent weir. Samples were collected over seven days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), EPA Methods 624 & 625 (Total Toxic Organic Compounds for 2-days), EPA Method 608 (Pesticides and PCB's for 4-days), Ammonia, TKN, Nitrate, Nitrite nitrogen, O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, BOD, COD, Total Phosphorus, Cyanide, Phenols, (Total, Volatile, Filterable, Non-filterable and Settleable) Solids, Dissolved Oxygen, Temperature, and pH.

Site 2: Plant Influent, Manhole #43 located west of the Wastewater Treatment facility. Samples were collected over seven days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), EPA Methods 624 & 625 (Total Toxic Organic Compounds), EPA Method 608 (Pesticides and PCB's), Ammonia, TKN, Nitrate, Nitrite Nitrogen, O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, BOD, COD, Total Phosphorus, Cyanide, Phenols, (Total, Volatile, Filterable, Non filterable and Settleable) Solids, Dissolved Oxygen, Temperature, and pH.

Site 3: Midwest Base, Manhole #58 located mid-base, east of Building 102. Samples were collected over three days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), O&G, Total Petroleum Hydrocarbons

- (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, Total Suspended Solids, Temperature, and pH. Some of the facilities upstream that discharge past this sampling point are the bowling alley, dormitories, security police, enlisted club and the chowhall.
- Site 4: North Branch, Manhole #63 located north mid-base. Located south of Building 806. This collection point is downgradient of the missile maintenance facilities. Samples were collected over two days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, Total Solids, Temperature, and pH.
- Site 5: West Branch, Manhole Unknown but east of #16. Located south of Building 909. This collection point is downgradient of the flightline maintenance facilities. Samples were collected over three days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, Total Solids, Temperature, and pH.
- Site 6: Hangar 7504, Manhole #507. Located southeast of the Pride Hangar, Building 7504. This collection point is downgradient of the avionics and field maintenance facilities located in this historic hangar. A preliminary inspection indicated that degreasers, solvents, and paints may not be normally used however, some are occasionally brought in by temporary personnel. Samples were collected over two days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, and Total Solids.
- Site 7: AGE Support, Manhole #135. Located west of Building 7520. This collection point is downgradient of aircraft ground support equipment. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, Total Solids, Temperature, and pH.
- Site 8: Flightline, Manhole #31. Located northwest of Building 7503. This collection point is downgradient of flightline maintenance Rows 60-100. Samples were collected over two days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, Total Solids, Temperature, and pH.

Site 9: Middle Base, Manhole #213. Located southeast of BX Service Station. This collection point is downgradient of the Dorms, NCO Club, Chow Hall, Arts and Crafts, Service Station and Ellsworth security police. Samples were collected over three days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), Ammonia, O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, Total Solids, Temperature, and pH.

Site 10: Hospital and BX Complex, Manhole #251. Located east of Building 5912 (Base Service Station). This collection point is downgradient of the Hospital, BX, Commissary, Officer Club, and the BEE shop. Samples were collected over three days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), Ammonia, O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, Total Solids, Temperature, and pH.

Site 11: East Base Housing, Manhole #310. Located on the perimeter road south of the lift station east of Building 9800. This collection point is downgradient of the northwest housing complex. Samples were collected over six days. The sampling program were a two day composite and a three day grab sample event. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), Ammonia, O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Phenols, Total Solids, Temperature, and pH.

Site 12: North West Housing, Manhole #400. Located east of Building 9800. This collection point is downgradient of the northwest housing complex. Samples were collected over five days. The sampling program were a two day composite and three days of grab sampling. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), Ammonia, COD, O&G, TPH, Total Phosphorus, Total Metals, Total Solids, Temperature, Phenols and pH.

Site 13: Northeast Housing, Manhole Unmarked. Located northwest of Building 9252. This collection point is downgradient of the northeast housing complex. This is a new sanitary system and has not been updated on the utility maps. Samples were collected over five days. The sampling program were a two day composite and three day grab sample event. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), Ammonia, COD, O&G, TPH, Total Phosphorus, Total Metals, Total Solids, Temperature, Phenols and pH.

Site 14: Industrial line influent to WWTF. Located at the Oil/Water Separator weir, Building 3013. This collection point

is the final industrial line influent prior to mixing with the sanitary influent. The sampling program for this location consisted of three composite samples. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), EPA Methods 624 & 625 (Total Toxic Organic Compounds), EPA Method 608 (Pesticides and PCB's), Ammonia, O&G, Total Petroleum Hydrocarbons (TPH), Total Metals, COD, Total Phosphorus, Cyanide, Phenols, (Total, Volatile, Filterable, Nonfilterable and Settleable) Solids, Temperature, and pH.

Site 15: Industrial Line, Manhole I-50. Located northwest of Building 7503. The flow was minimal during the presurvey therefore, a sandbag were required to obtain a composite sample. The sampling program for this location consisted of four composite samples. This collection point is downgradient of the aircraft maintenance hangars along the flightline. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), O&G, TPH, Total Metals, COD, Phenols, Temperature, Total Residue and pH.

Site 16: Audio Visual and Graphics, Manhole Unmarked. The audio visual and graphics collection site is located north west of Building 820. The sampling duration for this location was two days. Analyses at this location included: EPA methods 601/602 (Purgeable Halocarbons and Aromatics), Total Acidity, Total Metals, COD, Cyanide, Phenols, Temperature, Nitrate, Nitrite, Kjeldahl Nitrogen, Total Phosphorus, and pH.

Potable Drinking Water from Building 3005: A sample of potable water was collected from the base's drinking water supply at Building 3005. This sample was collected to identify possible source elements that in turn add to the effluent concentration. Analysis at this source included: EPA Methods 601/602 (Purgeable Halocarbons and Aromatics), O&G, TPH, Total Metals, Ammonia, COD, Cyanide, Phenols, Nitrate, Nitrite, Kjeldahl Nitrogen, Temperature, Total Phosphorus.

Sampling Methods

Wastewater samples were typically collected over a 24-hour period as a time-proportional composite. Ice was added in sufficient quantity to the sampler's base insuring the wastewater being composited in the 2.5-gallon (10-liter) jar was maintained at <4°C. At the end of the compositing period, each water sample was stirred to mix the solids thoroughly and the contents poured directly from the jar into appropriate prelabeled sample containers and placed in a cooler filled with ice. The collection jar was replaced with a clean jar prior to each sampling interval. After all of the samples were collected for each time period, they were transported in coolers to the

temporary work center (located at Building 3005), where appropriate preservatives were placed in each bottle as required. The samples were then placed in a refrigerator. They were placed in insulated shipping coolers, packed with blue ice, transported to TMO and shipped overnight to Armstrong Analytical Laboratory. The samples that were analyzed for total toxic organics and pesticides and PCB's by the contract laboratory were also shipped overnight to Kemron Laboratories located in Marietta, OH. The samples analyzed for biochemical oxygen demand (BOD) were delivered daily to a local analytical laboratory at Rapid City, S.D.

Samples collected for volatile organic halocarbons and aromatics, oils and greases, total petroleum hydrocarbons, total solids or residues and total toxic organics were collected as grab samples. These samples were captured directly from the wastestream and then poured directly into the appropriate sample container. The samples were preserved and shipped in the same conditions as the previously mentioned samples.

The sample pH and temperature were measured from each site's wastestream and recorded daily along with pertinent information relevant to the sample integrity (rain, odor, color, sampler condition, etc.).

All samples were collected and analyzed using Environmental Protection Agency (EPA) approved procedures. Sample preservation was in accordance with the AFOEHL <u>Sampling Guide</u>, March 1989. Appendix E lists the analysis procedures and preservation methods.

Field Quality Assurance/Quality Control (QA/QC)

A field QA/QC program, was used during this survey to verify the accuracy and reproducibility of laboratory results. The following types of samples were collected:

Equipment Blank Samples: Equipment blank samples were collected by pumping a liter of Laboratory Grade distilled water through the pump/purge cycle of the sampler into the appropriate sample container. Preservation and shipping was conducted in the same manner as the routine samples. These samples are used to check for cross contamination from the sampler, which may leach contaminants into the sample through residuals or desorption from the sampler tubing.

Reagent Blank Samples: Reagent blank samples are made by adding a standard aliquot of reagent preservative to a standard sample volume of Laboratory Grade distilled water. These samples

are analyzed for analytical parameters that were collected in the field. These samples serve to verify that the reagent does not add quantitative value to the analyte from its own matrix.

<u>Duplicate Samples:</u> Duplicate samples are collected by splitting grab or composite samples under identical protocol. Sample collection is accomplished by splitting the samples in the 2.5-gallon (10-liter) jar or grabbing double samples of each analyte. Each group of two samples is managed the same regarding collection, handling, preservation, storage, and shipment. This series monitors the reproducibility of sample analytical results. It should be noted that replicating duplicate sample results is difficult because changes in flow and unequal capture of solids can contribute to variability between the original and the duplicate sample.

Analytical Laboratory OA/OC

The Armstrong Laboratory Analytical Division Quality Assurance Plan establishes the guidelines and rules necessary to meet the analytical requirements of 43 states, U.S. EPA, and Specific activities include: (a) private accrediting agencies. inserting a minimum of one blind sample control for each parameter analyzed on a monthly basis, (b) periodic audit of the quality assurance items from each branch, (c) daily calibration of equipment, (d) a minimum of one National Institute Standards and Technology/Standard Reference Materials (NIST/SRM) traceable standard and control sample that is included with each analytical run, (e) corrective action documented each time a quality assurance is not met, (f) established detection limits for all sample data, (g) participation by the laboratory in numerous proficiency surveys and interlaboratory quality evaluation programs, and (h) plotting and tracking all quality control samples by the appropriate analytical section.

Quality assurance, also mandatory for all contracted analytical services, is validated periodically by Armstrong Laboratory personnel.

Spike Samples: Spike samples were prepared by Armstrong Laboratory's Analytical Services Division. These samples were prepared by filling the appropriate sample container with laboratory grade distilled water, adding a known quantity of an analytical parameter, and preserving the sample as appropriate. This series monitors the sample collection, preservation, and reproducibility of analytical results. Spike samples were split at the lab, brought to Ellsworth Air Force Base and shipped to the contract lab to evaluate sample integrity and duplication.

RESULTS AND CONCLUSIONS FOR WASTE WATER CHARACTERIZATION

Contaminant concentrations and physical and chemical parameters are presented in the following section to characterize the various wastewater streams sampled during the survey. Some of the concentrations show potential problems with disposal methods. Others simply contribute to the identifying characteristics of the wastewater that reflect the types of materials being discharged into the sewers. Please note that all analyses results by site number may be found in Appendix D.

The results are segregated into tables as follows: Table No.

DA-1 to DA-4 Site 1, BASE EFFLUENT TO BOX ELDER CREEK

DB-1 to DB-4	Site 2, SANITARY LINE INFLUENT TO PLANT
DC-1	SITE 3, MIDWEST BASE
DD-1	SITE 4, NORTH BRANCH, MANHOLE #63
DE-1	SITE 5, WEST BRANCH LOCATED ADJACENT TO BLDG 909
DF-1	SITE 6, PRIDE HANGAR 7504, MANHOLE #507
DG-1	SITE 7, AGE SUPPORT, MANHOLE #135
DH-1	SITE 8, FLIGHTLINE SANITARY, MANHOLE #31
DI-1	SITE 9, MIDDLE BASE, MANHOLE #213
DJ-1	SITE 10, HOSPITAL and BX COMPLEX, MANHOLE #251
DK-1	SITE 11, EAST BASE HOUSING, MANHOLE #310
DL-1	SITE 12, NORTHWEST BASE HOUSING, MANHOLE #400
DM-1	SITE 13, NORTH EAST BASE HOUSING, MANHOLE UNMARKED
DN-1 to DN-3	SITE 14, INDUSTRIAL LINE INFLUENT TO WWTF
DO-1	SITE 15, FLIGHTLINE INDUSTRIAL, MANHOLE #51
DP-1	SITE 16, AUDIO VISUAL AND GRAPHICS, MANHOLE UNMARKED
DQ-1	SITE 17, POTABLE WATER SAMPLE
DQ-2	SPIKE SAMPLES

Oils, Greases and Total Petroleum Hydrocarbons

Oil and Grease (O&G) is not a specific analysis because a group of substances with similar properties are measured due to their solubility in trichlorotrifluoroethane. Some of these compounds could include organic dyes, sulfur compounds, and chlorophyll. Total Petroleum Hydrocarbons (TPH) compounds are extracted and analyzed in the same manner as O&G; however, after measuring for O&G with a infrared detector, a silica gel is added to the sample to adsorb the nonpetroleum compounds and remeasured (Standard Methods 18th Edition). Total Petroleum Hydrocarbons compounds detected can also come from detergents and other domestic sources, and not solely from fuels.

Tables DA-1 through DP-1 indicate few elevated levels of O&G. Table DO-1 indicates the most elevated O&G sample collected during the survey. This sample collected from Site 15 Flightline Industrial was measured at 212.9 mg/L. The associated TPH level, 160 mg/L, indicated that the origin of the O&G source found was predominately petroleum. The next highest detected sample was collected from the North East Housing at 112 mg/L with an associated TPH of 2.3 which indicates that the majority of the O&G is not petroleum based.

Chemical Oxygen and Biochemical Oxygen Demand

Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) are two common analytical procedures to determine the oxygen demand of a water sample. This demand may be caused by biodegradable organics, nutrients, refractory organics, heavy metals or dissolved inorganic solids. The BOD5 procedure requires 5 days to incubate microbes which biochemically exert an oxygen demand. This procedure must begin within 24 hours after the sample is collected. The results can also vary depending on the microbial colony and concentration of contaminants. The COD procedure, with a holding time of up to 28 days, utilizes a This procedure chemical oxidizer to determine the oxygen demand. is more consistent than the BOD procedure. The BOD samples were directly transported to Energy Laboratories Inc. The COD samples were analyzed at the laboratory set up in Building 3005 and Armstrong Laboratories.

There was a communication error that resulted in the termination of the BOD results. The Energy Laboratories assumed that the samples were dechlorinated prior to delivery. This was the practice prior to this survey between Ellsworth AFB and Energy laboratories. Tables DA-1 through DP-1 indicate several elevated levels of COD. Table DH-1 and DO-1 indicates the most elevated sample collected during the survey. Both of these sites came from the sanitary and industrial sewer lines from the flightline and measured 2000 and 1090 mg/L respectively. The COD levels detected in all three housing areas varied between 260 and 588 mg/L indicated normal levels for the operations conducted upstream of these collection points. Table DF-1 indicates that the operations conducted at the Pride Hangar 7504 had consistently moderate levels of COD.

Total Cyanides

Total cyanides were analyzed at selected sites throughout the base. Almost all of the samples indicated detectable levels except for the industrial sewage, housing sanitary and the sanitary lines upstream from Site 9 located at the base service station. The highest concentration at 0.63 mg/L was detected at Site 4 and 0.675 at Site 5 that represents the north branch and the flightline operations drainage of the sanitary system respectively. The levels detected at the other sites located at or near the flightline operations were much lower in concentration. The sources can most probably be attributed to the ingredients of the pesticides used at these facilities. This may be verified by evaluating what pesticides that are used in these facilities.

Miscellaneous Analyses

Phenolic compounds are used in many products from cough syrup to cleaning compounds. The most elevated levels (210 mg/L) were detected at Site 6 the Pride Hangar. The next elevated levels were at Sites 7 and 9 with levels of 158 mg/L and 137 mg/L respectively. These concentrations are low level and appear to be diluted or consumed before entering the plant as evident by the sole detected samples collected at Site 2 at 13 mg/L. Phenols were not detected in the WWTP effluent to Box Elder Creek.

The remaining analyses from Groups A, D, E, and infield readings do not indicate any significant industrial or sanitary discharges from these facilities.

Group G Parameters

Solids analyses are compiled in Tables DA-1 though DQ-1. The solids are separated into Total Residue, Filterable Residue (Total non-dissolved solids), Volatile Residue, and Total Suspended Solids (TSS). Most sites had only total suspended solids analysis. TSS was analyzed at the WWTF laboratory by Armstrong Laboratory personnel. Residue samples were split in the field with a sample splitting twin funnel and analyzed at Armstrong Laboratories.

The solids levels found at Site 8 was the most elevated at 1242 and 1920 mg/L. It was noted that the sample was thick and soapy. This sample point represents the sanitary discharge of the maintenance hangars on flightline Row 60 to Row 110. This system may have been once combined with stormwater and was flushed with precipitation events, however now since it is segregated from the stormwater, there does not appear to be enough water flow to suspend the solids. The bottom of this manhole was 4 to 5-inches thick with solids and water flow was minimal. This solids build up is also typical when high volume toilets are replaced with water efficient toilets. The low slope grade of the sanitary line is not enough to support a minimum of 2 feet per second flow to suspend solids.

The northeast housing area, (Site 13) had the most elevated TSS levels of the three housing areas. Again this may be due to water efficient toilets and garbage disposals. The TSS levels in the WWTP effluent was in compliance (ú30 mg/L) except for the sample collected on 28 Oct 93. The TSS level was detected at 55 mg/L. It is not unusual for an isolated event to have elevated levels in a trickling filter system due to sloughing or low retention time in the final clarifiers due to surges or elevated flows. The solids levels at other locations of the base were not unusual.

Total Acidity was analyzed at Site 16 (TABLE DP-1), only. The acidity levels detected do not appear unusual.

Metals Analyses

Total metal analyses were performed on the wastewater samples by Induction Coupled Plasma (ICP) and Graphite Furnace methods. base effluent at Site 1 indicated no abnormally elevated levels of metals except for two samples that had levels of 0.001 mg/L of cadmium(See TABLES DA-1 and DA-2). Cadmium was detected in low concentrations at Sites 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, and 16. Cadmium is often generated predominately in corrosion control Copper was also detected at in minor levels activities. throughout the base. Silver was detected in the usual locations (Sites 4, 5, 10 and 16) that use photo developers such as Audio/Visual and the Hospital. Lead was detected at Sites 6, 7, 8, 9, and 14 between .020 - 0.112 mg/L. Lead is typically found at operations involving batteries and vehicle maintenance. Flightline support operations discharge to Sites 6, 7, 8, and 14. The base service station and the auto hobby shop discharge to The other sites also did not exhibit levels of concern Site 9. for total metals.

Volatile Organic Compounds (GC)

Volatile Organic Compounds (VOCs) were analyzed via EPA Methods 601 (Volatile Organic Hydrocarbons) and 602 (Volatile Organic Aromatics).

VOCs are widely used in many products and are also byproducts of ongoing processes throughout any USAF base. Usually,
the small amounts that enter the sanitary system are treated by
biodegradation or volatilization. Small amounts are routinely
treated with no impact to the biological treatment system. Large
amounts, however, can cause a toxic shock to the system in the
POTW and create a fire or explosion hazard.

The VOCs present in the base effluent are not significantly elevated with the exception of o-xylene and methylene chloride. The only elevated xylene level was detected on 26 October 1993 at 2.38 mg/L and methylene chloride at 2.38 mg/L on 27 October 1993. (See TABLE DA-2). The most elevated level of xylene was detected coming from the Pride Hangar at 76.78 mg/L. Other sources of xylene were detected at flightline locations Sites 7 and 8. The only sample collected from the operations area containing detectable levels of methylene chloride was collected at Site 3 which was detected at 156.99 mg/L. The other VOCs detected in the WWTP effluent are; bromodichloromethane, chlorobenzene, and chlorodibromomethane, are disinfection byproducts as detected in the potable water sample TABLE DA-1 and DA-2.

Other compounds present at various sites are bromodichloromethane, chloroform, chlorodibromomethane, 1,4-Dichlorobenzene, dichlorodifluoromethane, ethylbenzene, methylene chloride, tetrachloroethylene, trichloroethylene, 1,1,1-Trichloroethane. Bromodichloromethane, toluene, and chloroform are byproducts from chlorination. The other compounds can be traced to fuels, paints, cleaners and solvents. Most of the sites had relatively low levels of these compounds.

Chlorodibromomethane (a.k.a. dibromochloromethane) is used as a chemical intermediate in the manufacturing of fire extinguishing agents, aerosol propellants, refrigerants and pesticides. The national primary drinking water MCL for total trihalomethanes is 0.10 mg/L 40 CFR 141.12 (7/1/88). This compound, a toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, is subject to effluent limitations (40 CFR 401.15 (7/1/88)). This compound was detected at 4.17 mg/L in the potable water sample collected at Building 3005 on 22 Oct 1993. This trihalomethanes compound consequently was also detected throughout the base and in the base effluent.

1,4 Dichlorobenzene or para-Dichlorobenzene is predominately used as a insecticidal fumigant and a deodorant for garbage and rest rooms. It has minor uses in resins and abrasive wheel production. This compound is designated as a hazardous substance under section 311(b)(2)(A) of the Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments of 1978 and 1978, (40 CFR 116.4 (7/1/87)). This compound, a toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, is subject to effluent limitations (40 CFR 401.15 (7/1/90)). It was detected at every site except Sites 1, 10, 14, and 15. The highest concentration of 21.73 ppb was detected at the Powered AGE support on 22 Oct 1993. It should be noted that the EPA is promulgating National Primary Drinking Water Regulations (NPDWRs) for certain volatile synthetic organic chemicals. Specifically,

this notice promulgates a maximum contaminant level for paradichlorobenzene at 75.0 ppb. Drinking water standards should not be used for sanitary effluent standards. It would appear however, that if the maximum detected level of para-dichlorobenzene from the sanitary sewer is less than the NPDWRs standard, then there should be minimal concern in removing deodorizers from the base supply.

Ethylbenzene is used as a solvent or diluent; component for automotive and aviation fuel; precursor to styrene production; and a alkyd for surface coatings. This compound, a toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, is subject to effluent limitations (40 CFR 401.15 (7/1/91)). This compound was detected in the industrial sewage line sampling Sites 14 and 15 at 6.15 and 19.4 mg/L respectively. This compound was not detected at any of the sanitary sewage sampling points.

Methylene Chloride or Dichloromethane is used in solvents for cellulose acetate; medical anesthetics; paint removers; vapor degreasing solvents for metal and plastics; cleaning agents; carrier solvents for insecticides and herbicides; adhesives; cleaning solvents for circuit boards; refrigerants; dyes and perfumes; components of fire extinguishing compounds; molding of dental materials; and in quite a number of uses that are unrelated to the normal operations of a military installation that is not a logistics center. This compound, a toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, is subject to effluent limitations (40 CFR 401.15 (7/1/90)). It was detected in the Base's effluent at Site 1 on 27 Oct 1993 at 2.38 ppb. highest concentration of 156.99 was detected at Site 3 on 21 Oct 1993. This chemical is commonly used; however, it was not found at any other source points. It was detected at the WWTP influent on 21 Oct 1993. This chemical is often found in samples as analytical cross contamination.

Tetrachloroethylene is used in dry-cleaning; cold cleaning and vapor degreasing of metals; synthesis of fluorocarbon 113, 114, 115, and 116; heat exchange fluid; and typewriter correction fluid. This compound, a toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, is subject to effluent limitations (40 CFR 401.15 (7/1/88)). The compound was detected at both industrial sewage line sampling Sites 14 and 15 at 1.12 and 19.18 ppb respectively. It was also detected five out of the seven sampling days at Site 2, the WWTP sanitary influent. It was not detected in the effluent.

Toluene is used in solvents for paints, lacquers, gums, and resins; as a gasoline and aviation fuel additive; inks; cements; cosmetics; spot removers; antifreezes; and fuel blending.

Toluene, designated a hazardous substance under section 311(b)(2)(A) of the Federal Water Pollution Control Act, is further regulated by the Clean Water Act Amendments of 1977 and 1978, (40 CFR 116.4 (7/1/88)). This compound, a toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, is subject to effluent limitations (40 CFR 401.15 (7/1/91)). The highest concentration of 94.23 ppb on 27 Oct 1993 at Site 15 the industrial line coming off of the flightline. It was also detected at Sites 9, 11, 13, 14 and 16. It would be usual to see minor levels of toluene at Sites 9 and 16; however not the housing areas Sites (11 and 13).

1,1,1-Trichloroethane is found in solvents used for: precision instruments, adhesives, and metal degreasing; pesticides; dry cleaning; lubricants in metal cutting oils; and components in inks and drain cleaners. A toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, it is subject to effluent limitations (40 CFR 401.15 (7/1/90)). It was detected in minor concentrations of 1.89 and 1.45 ppb at Sites 15 and 16 respectively.

Xylene is used in: the manufacture of resins, paints, varnishes, and general solvent for adhesives; aviation gasoline; protective coatings; and many other processes. This compound, a hazardous substance pursuant to section 311(b)(2)(A) of the Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments of 1977 and 1978, and is subject to effluent limitations (40 CFR 116.4 (7/1/88)). This compound was detected in the base effluent as previously described. The highest concentration was detected at Site 15 at 99.99 mg/L on 27 Oct 1993. It was also detected in minor concentrations at Sites 2, 3, 6, 7, and 8.

Total Toxic Organic Compounds

Total Toxic Organic (TTO) compounds are detected with EPA Methods 608, 624 and 625. These are purgeable, base-, neutral-, and acid-extractable organic compounds. Total Toxic Organics analyses are very expensive and were therefore limited to the influent and effluent of the WWTP and the effluent of the oil/water separator of the industrial line at Site 14.

Tables DA-3, DA-4, DB-3, DB-4, DN-2, and DN-3 list the Polychlorinated Biphenyls (PCBs), pesticides, volatile, baseneutral, and acid extractable compounds for the base effluent at Sites 1, 2, and 14. No PCBs and organic pesticides were detected. Low to moderate levels of base-neutral compounds were detected in addition to the typical volatile compounds described in the previous section. The other organic compounds found in the TTO analyses are described as follows:

Bis(2-Ethylhexyl)Phthalate is used in plasticizers for polymeric materials such as natural rubber, synthetic rubber, cellulose acetate butyrate, polystyrene; vacuum pump oil; dielectric fluids for capacitors; inert ingredients for pesticides; insect repellent formulations; cosmetics; rubbing alcohol; and photographic film, wire and cable adhesives. It is also one of the predominate laboratory contaminants due to sample container and instrumentation plastic parts. This compound has a human criteria for ingestion of water at 15.0 mg/L. Contaminated aquatic organisms criteria is set at 50 mg/L. This compound, designated a toxic pollutant pursuant to section 307(a)(1) of the CWA, is subject to effluent limitations. It was detected at 15 mg/L at Site 1, 33 mg/L at Site 2, Site 14 at 17 mg/L on 27 Oct 1993.

Benzidine is used in the manufacturing of dyes; as a reagent for hydrogen peroxide; stain in microscopy; security printing; and plastic films. This compound, a toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, is subject to effluent limitations (40 CFR 401.15 (7/1/91)). This compound was detected at Site 2 at 26 mg/L on 27 Oct 1993.

Phenanthrene, a polynuclear aromatic hydrocarbon, is used in the manufacturing of explosives; and the synthesis of drugs. Neither of these operations are found commercially at Ellsworth AFB. Phenanthrene is found in smoked foods, charbroiled steaks, and cigarette smoke. It can also be found in high octane gasoline, used engine oil, diesel exhaust, It is often generated from the incomplete combustion of fossil fuels. This compound, a toxic pollutant pursuant to section 307(a)(1) of the Clean Water Act, is subject to effluent limitations (40 CFR 401.15 (7/1/87)). This compound was detected at Site 14 at 17 mg/L on 27 Oct 1993. The most probable source is from washing engine exhaust carbon from the aircraft on the washrack.

OA/OC DATA

Table DQ-1, lists the analytical results for the potable water from Building 3005. The analyses performed on the potable water reveal what chemical concentrations and impurities are found in the incoming treated water. These levels can be subtracted from the concentrations revealed by the analyses performed on the sanitary outfalls to determine the additive effects of effluents on the system. For example, chloroform, a chlorination byproduct is present at 2.04 mg/L and it is found in most of the samples throughout the base. Magnesium is also found throughout the entire survey at approximately 11 to 45 mg/L. If a sample indicated a level of 22 mg/L, then the "relative ambient" level of 20 mg/L would be subtracted from the 22 mg/L

for an reading of 2 mg/L. The potable water contains detectable concentrations of ammonia, calcium, and nitrates. All of these levels are below the current drinking water MCLs.

Table DQ-2 indicate spike samples that were created at Armstrong Laboratory. These results are supposed to fall within an acceptable window or advisory range. Most of the results fell within this window. Few other analytes fell close to this window or were not analyzed for that particular parameter. Variances can be the results of matrix interferences, poor recovery, or technician error. These results indicate fairly good recovery.

Table DQ-2 also contains reagent blanks results, collected and analyzed to determine if there are other interferences due to the reagent composition, are prepared by filling typical sample bottles with laboratory grade water and preserving them with the standard reagent used in the field. These blank samples are analyzed for the same parameters as those requested for the field samples. If there are significant values detected, then that value may be subtracted from the gross levels detected in the field sample for a net gain. The reagent blank results listed in Table DQ-2, indicate that two parameters were detected. sulfuric acid used to preserve Groups A and E analytes indicated a low, near detection level of chemical oxygen demand and kjeldahl nitrogen of 0.8 mg/L. The nitric acid used in the preservation of metals in Group F indicated a detectable level of 0.001 mg/L of cadmium. These levels are not significant with respect to the levels detected in the sanitary waste water samples collected. Therefore the levels detected throughout the survey may be accepted as valid. The potable water analytes detected should still be considered when reviewing the samples collected throughout the base.

CROSS-CONNECT STUDY

During our discussion with the BEE during the presurvey, it was expressed that Ellsworth Air Force Base is pending litigation for exceeding the maximum solids discharge limits. Elevated levels are more apparent during precipitation events. Stormwater infiltration due to cross connections is suspected. This infiltration problem is another primary concern for Ellsworth Air Force Base.

During the presurvey, there were several flush mounted storm sewer covers on sanitary lines observed that would drain over 3/4-acre area. Some of these covers had significant amounts of debris collected due to storm events washing into these covers. It was also noted at this time that there were many unknown

termination points listed on the storm and sanitary sewer line utilities maps. It should be noted that of the many bases that we survey, that Ellsworth AFB had some of the most accurate utilities maps. There were only a couple of manholes that could not be located such as manhole #482 located north of the NDI Building #905.

We recommended during the outbriefing that these storm grate covered flush mounted manholes be refitted with sanitary covers and elevated with extension rings. During a staff assistance visit on 28 - 31 March 1994, it was noted that the civil engineers were in the process of retrofitting these manholes.

SUMMARY AND RECOMMENDATIONS

Overall the base's effluent looks good with the exception of the minor levels of xylene and methylene chloride compounds detected. The solids problem was more thoroughly addressed with the staff assistance survey. Site 7 and Site 8 indicated large amounts of solids building up in the bottom of the manhole and should have regular preventative maintenance to flush these out to prevent possible costly repairs to the sanitary lines.

At the time of the survey, no one from Civil Engineering could produce a document permitting the trailer park located adjacent to the base to discharge their sanitary to Ellsworth AFB. This is probably an improper use of government property and resources that should be rectified. The waste treatment plant has had problems in the past with unknown sources crashing the system. There is an inherently greater potential for petroleum products being discharged to the sanitary from patrons in a trailer park who perform their own automobile and recreational vehicle maintenance. The Air Force does not have enforcement capability on this civilian site in the event of an illegal discharge.

FINAL SUMMARY

The final effluent appears to be in compliance with regard to analyte content however, the organic compounds xylene and methylene chloride should be addressed. Maintenance and disposal activities should be monitored at the Pride hangar and the flightline. The toluene detected in the housing area is unusual and a message in the base bulletin or newspaper should remind patrons not to dispose of organic solvents into the sanitary sewer. An alternate disposal site could be made at DRMO for patrons to dispose of these compounds or establish a trading post for household chemicals similar to that at Whitehead AFB, where

base patrons can leave their used and unused cleaners, solvents and supplies when they move from the base. Incoming and current patrons can utilize these compounds until they are finished instead of wasting a usable resource or disposing of it down the sanitary sewer.

APPENDIX A CORRESPONDENCE REQUESTING SURVEY

DEPARTMENT OF THE AIR FORCE



HEADQUARTERS TACTICAL AIR COMMAND LANGLEY AIR FORCE BASE VA 23665-

REPLY TO ATTN OF: SGPB

11 Dec 91

SUBJECT: Tactical Air Command (TAC) Request for Waste Water and Hazardous Waste Surveys

TO: AL/OEB

- During a recent TAC Water Quality Working Group meeting, the committee discussed the need and benefit of waste water and hazardous waste studies. Everyone agreed that these surveys are invaluable and that Armstrong Laboratories does an excellent job performing them. As a result, TAC would like to develop a program to have Armstrong Laboratory perform baseline waste water and hazardous waste studies at each TAC base over the next few years. In addition, we are interested in establishing a reoccurring schedule of studies to update the baseline surveys.
- 2. I have informally discussed this proposal with Maj John Garland and Capt Pat McMullen from your staff to determine the viability of the request. It appears TAC's request is similar to what you are already doing for ATC. Suggest we set-up a meeting to layout the details for this undertaking.
- 3. Meanwhile, I would like to request three waste water studies be accomplished in the near future. Cannon AFB, Mountain Home AFB, and Langley AFB all have MCP projects scheduled for FY 95 to upgrade their sewage treatment plants. Waste water studies are needed to provide input for their proper design.
- Please advise me when you would be available to have the requested meeting to develop the TAC survey program. In addition, please indicate when you will be able to perform the three waste water surveys requested in this letter. As always, your assistance and support is greatly appreciated. Please contact me at HQ TAC/SGPB, DSN 574-4611.

DAVID L. POTTS, Lt Col, USAF, BSC Command Bioenvironmental Engineer Office of the Command Surgeon

cc: TAC/DEVC

1 Med Gp/SGPB 27 Med Gp/SGPB 366 Med Gp/SGPB

DEPARTMENT OF THE AIR FORCE

ARMSTRONG LABORATORY (AFSC) BROOKS AIR FORCE BASE, TEXAS 78235-5000

18 MAR 1992

REPLY TO

OEBE (Maj Garland, DSN 240-3305)

SUBJECT:

Air Combat Command Strawman Survey Schedule

TO: HQ TAC/SGPB/DEVC

1. Attached is the strawman survey schedule for the next six years. For the first four years, we plan to survey all the bases that have never been surveyed. The anticipated month of the survey is next to each base. In 1998, we will be surveying those bases that have had wastewater characterizations in recent years to the present. Those surveys are in parentheses by the base. In 1999, we will start to resurvey the bases in sequence starting from those surveyed in 1993.

2. If you have any questions, please contact Maj Garland.

EDWARD F. MAHER, Colonel, USAF, BSC Chief, Bioenvironmental Engineering

Division

1 Atch Survey

cc: HQ SAC/SGPB/DEVC

Air Combat Command Strawman Survey Schedule

1993

Shaw AFB SC--April Griffiss AFB NY--May Minot AFB ND--June Ellsworth AFB SD--July

1995

Dyess AFB TX--March Pope AFB NC--April Seymour Johnson AFB NC--May Fairchild AFB WA--July

1997

Homestead AFB FL(87)--May Barksdale AFB LA(88)--June Beale AFB CA(89)--July Davis-Monthan AFB AZ(89)--August

1999

Mountain Home AFB ID(92)--July Cannon AFB NM(92)--September

1994

McConnell AFB KS--April Offut AFB NE--May Grand Forks AFB ND--June K.I. Sawyer AFB MI--July

1996

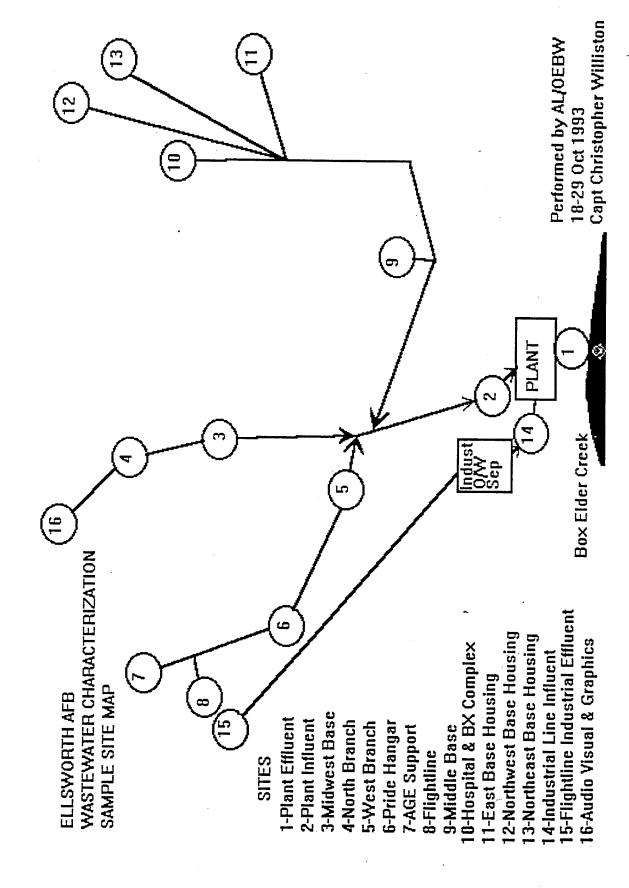
Tyndall AFB FL--March Nellis AFB NV--May F.E.Warren WY--July Moody AFB GA--September

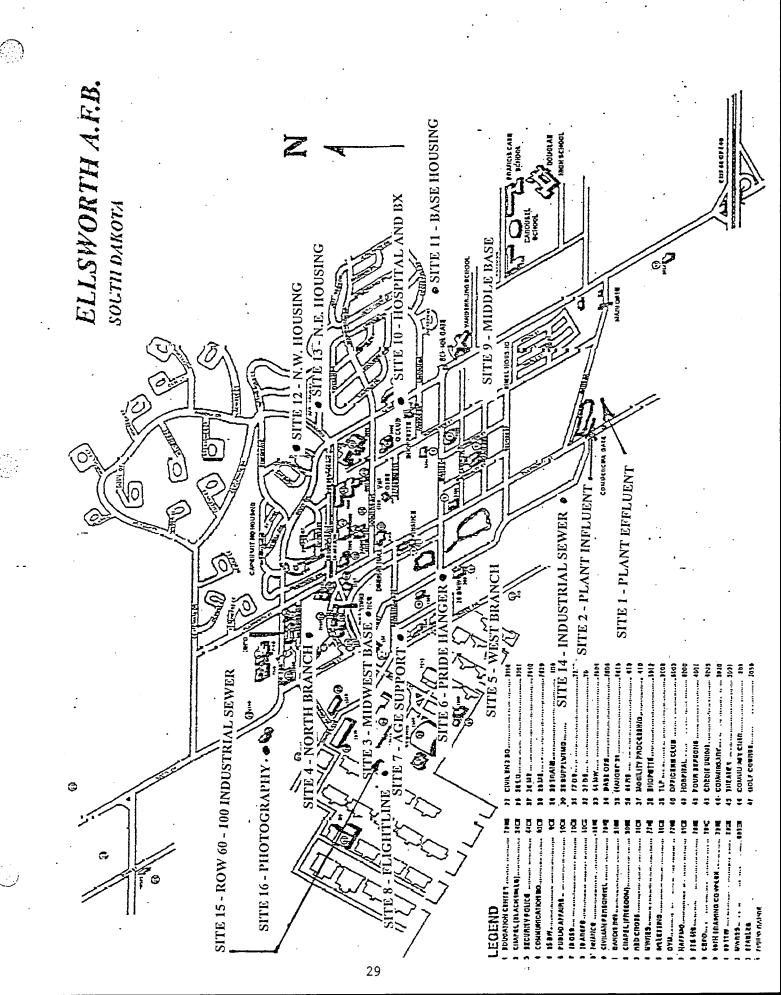
1998

Luke AFB AZ(89)--April Holloman AFB NM(91)--June Whiteman AFB MS(91)--August Langley AFB VA(92)--September APPENDIX B
SAMPLING STRATEGY

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	TH 18-29 OCT		xvgen Der	Kjeldahl Nitrogen			eum Hydro	Biochemical Oxygen Demand	hate	Shorus		otal				METALS						Total)															Bromide	al	nfillerable	ttieable	latile	nductance	MOAC	Turbidity	טטט	ole Halocar	602 Purgeable Aromatics	es and PC	1 PCB's on	AS I I US Alvies
ANALYTES	LLSWOR	GROUP A	Ammonia Chemical O	eldahl Nit	trate	Unite 1.8. Grand	da Greds	ochemica	thophosp	otal Phose	GROUP D	Cyanide, Total	3 011000	Phenols		GROUP F, METAL	Sanle	Barlum	myllium	ug.	mamor and	rominm (pper	٥	Mannecium	nganasa	roury	lex.	lantim	Silver	Vanadium	Zinc		OUP G	dity	alluity	omlde	sidue, tot	sidue, No	sidue, Se	Residue, vo	acific Con	fate	bidity	A METH	Purgeab	2 Purgeat	Pesticid.	Modified	Sile An

APPENDIX C SAMPLING LOCATION MAP





APPENDIX D

ANALYTICAL RESULTS

TABLE DA-1, SITE 1, BASE EFFLUENT TO BOX ELDER CREEK Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: Base Sanitary and Industrial Discharges

GROUP A ANALYTES	COLLECTION DATE		COLLECTION DATE	COLLECTION		COLLECTION DATE	
Ammonia	Thursday, 21 Oct 93		Friday, 22 Oct 93	Saturday, 23 (Monday, 25 Oct 93	
Ammonia Kjeddahl Nitrogen		2.2		.8	2.6		2.
Nitrate		8.8			6.6		6.
Nitrite			<.02	<.02 -			5.
Chemical Oxygen Demand (mg/L)		55		10	57	<.02	
Oil and Grease (mg/L)		3.1		.1 leaked in trans		 	50
Total Petroleum Hydrocarbon (mg/L)		1		.3 leaked in trans		 	3.8
Total Phosphorus (mo/L)		3.3		3	3.4	 	1.4
			1	<u> </u>	3.4		3.9
GROUP D ANALYTES							
Cyanide		0.005	0.0	15	0.011	<.005	
			1		0.011	1.000	
GROUP E ANALYTES							
Phenois (ug/L)	<10		<10	<10		<10	
GROUP F ANALYTES							
Aluminum		0.32	<0.100	_	0.116		0.38
Arsenic (mg/L)	<0.010		<0.010	<0.010		<0.010	
Barium	<0.100		<0.100	<0.100		<0.100	
Beryllium (mg/L)	<0.010		<0.010	<0.010		<0.010	
Cadmium (mg/L)	<0.001		<0.001			<0.001	
Calcium		62			53.54		60
Total Chromium (mg/L)	<0.050		<0.050	<0.050		<0.050	
Cobalt	<0.100		<0.100	<0.100		<0.100	
Copper (mg/L)		0.032			0.024		0.026
Iron (mg/L)	<0.100		0.10		0.11		0.17
Lead (mg/L)	<0.020		<0.020	<0.020		<0.020	
Magnesium (mg/L)		28			26.49		28
Manganese (mg/L)	<0.050		<0.050	<0.050		<0.050	
Mercury (mg/L)	<0.001		<0.001	<0.001		<0.001	
Molybdenum Nickel (mg/L)	<0.100		<0.100	<0.100		<0.100	
	<0.050		<0.050	<0.050		<0.050	
Silver (mg/L)	<0.005		<0.005	<0.005		<0.005	
Titanium Vanadium	<0.100		<0.100	<0.100		<0.100	
	<0.100		<0.100	<0.100		<0.100	
Zinc (mg/L)	<0.050		<0.050	<0.100		<0.050	
Group G				 			
Residue (total)							
Residue, filterable							
Residue, nonfilterable							
Residue, total volatile							
TSS							
100		22	2	1	18		25
				+			
ON SITE ANALYSES							
pH (units)		6.3	6.	2			
Temperature (°C)		13		6	6.7		6.6
Dissolved Oxygen mg/L		6.3			15 6.6		15 6.45
		0.0		<u> </u>	0.0		6.45
SAMPLE NUMBERS	GN931001		GN931035	GN931061		GN932005	
	IGN931002					CN932007	
	GN931002 CN931003		CN931037	CN931063		CN932007	
	GN931002 CN931003					CN932007 GN932006	
VOLATILE COMPOUNDS (ug/L)	CN931003		CN931037 GN931036	CN931063 GN931062		CN932007 GN932006	
Bromodichloromethane	CN931003 Thursday, 21 Oct 93 <1,0		CN931037 GN931036 Friday, 22 Oct 93	CN931063 GN931062 Saturday, 23 O		CN932007	7.4
Bromodichloromethane Bromoform	CN931003 Thursday, 21 Oct 93 <1.0		CN931037 GN931036 Friday, 22 Oct 93 <1.0	CN931063 GN931062 Saturday, 23 O	ed 93 5.33	CN932007 GN932006 Monday, 25 Oct 93	7.4
Bromodichloromethane Bromoform Bromomethane	CN931003 Thursday, 21 Oct 93 <1.0 <1.0 <1.0		CN931037 GN931036 Friday, 22 Oct 93 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 <1.0	oct 93 5.33	CN932007 GN932006	7.4
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	CN931003 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0		CN931037 GN931036 Friday, 22 Oct 93 <1.0 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 <1.0 <1.0	oct 93 5.33	CN932007 GN932006 Monday, 25 Oct 93 <1.0	7.4
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene	CN931003 Thursday, 21 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		CN931037 GN931036 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 <1.0	ta 93 5.33	CN932007 GN932006 Monday, 25 Oct 93 <1.0 <1.0	7.4
Sromodichloromethane Sromodom Sromonethane Sarbon tetrachloride Chlorobenzene Chlorodicromomethane	CN931003 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931037 GN931036 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 <1.0 <1.0 <1.0	5.33 5.33	CN932007 GN932006 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0	7.4
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chlorodibromomethane	CN931003 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931037 GN931036 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 <1.0 <1.0 <1.0 <1.0	5.33 5.33	CN932007 GN932006 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0	
Bromodichloromethane Bromodichloromethane Bromomethane Barbon tetrachloride Chlorobenzene Blorodibromomethane Chloroethane Chloroethane Chloroethywinyl Ether	CN931003 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931037 GN931036 Friday, 22 Oct 93 1.3 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 <1.0 <1.0 <1.0 <1.0	5.33 5.33	CN932007 GN932006 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0	1.69
Sromodichloromethane Sromodichloromethane Sromomethane Sarbon tetrachloride Chlorobenzene Chlorodibromomethane Chlorothane Chlorothylvinyl Ether Chloroforom	CN931003 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.92	CN931037 GN931036 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.33 5.33 2.03	CN932007 GN932006 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0	
Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroditromomethane Chloroethane Chloroethylvinyl Ether Chloroform Chloroform	CN931003 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.92	CN931037 GN931036 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 6 <1.0 <1.0 <1.0 <1.0 <1.0	2.03 7.14	CN932007 GN932006 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.69
Sromodichloromethane Sromoform Tromomethane Sarbon tetrachloride Chlorobenzene Chlorobenthane Chlorothane Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform	CN931003 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.92	CN931037 GN931036 Friday, 22 Oct 93 1.3 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931063 GN931062 Saturday, 23 O 6 <1.0 <1.0 <1.0 <1.0 <21.0 <1.0 <1.0 <1.0 <1.0	5.33 5.33 2.03	CN932007 GN932006 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.69
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TABLE DA-2, SITE 1, BASE EFFLUENT TO BOX ELDER CREEK Base Survey: ELLSWORTH AIR FORCE BASE

Survey Dates: 18-29 October 1993
Contributing Sources: Base Sanitary and Industrial Discharges

GROUP A ANALYTES	COLLECTION DATE		COLLECTION DATE		Istrial Discharges	COLLECTION DATE	
	Tuesday, 26 Oct 93		Duplicate Duplicate		Wednesday, 27 Oct 93		
Ammonia	1 acousy, 20 Oct 93	1.42		1.4		Thursday, 28 Oct 93	3.:
Kieddahi Nitrogen		3.9		4,4			6.4
Nitrate		8.8		8.8			
Nitrite	<.02		<.02		<.02	<.02	
Chemical Oxygen Demand (mg/L)		58		70			49
Oil and Grease (mg/L)		4.7		3.8			4.6
Total Petroleum Hydrocarbon (mg/L)		2.1		1.2			2.1
Total Phosphorus (mg/L)		3.7		3.85	3.1	3	3.1
GROUP D ANALYTES			 				
Cyanide (mg/L)	<.005		<.005		0.02		0.005
Cyanide (IIQL)	15.005		7.003		0.02		0.005
GROUP E ANALYTES						 	
Phenois (ug/L)	<10		<10	_	<10	<10	
						1	
GROUP F ANALYTES						1	
Aluminum	<0.100			0.28	0.3	NA	
Arsenic (mg/L)	<0.010		<0.010		<0.010	<0.010	
Barium	<0.100		<0.100		<0.100	<0.100	
Beryllium (mg/L)	<0.010		<0.010		<0.010	<0.010	
Cadmium (mg/L)			<0.001		<0.001	<0.001	
Calcium	10.050	53		55	54		. 55
Total Chromium (mg/L)	<0.050		<0.050		<0.050	<0.050	
Cobalt	<0.100	0.00+	<0.100		<0.100	<0.100	
Copper (mg/L) Iron (mg/L)		0.024		0.023	0.03		0.021
Lead (mg/L)	<0.020	0.14	<0.020	0.13	<0.020	<.020	0.1
Magnesium (mg/L)	-0.020	24		26	26		26
Manganese (mg/L)	<0.050	24	<0.050		<0.050	<0.050	
Mercury (mg/L)	<0.001		<0.001		<0.001	<0.001	
Molybdenum	<0.100		<0.100		<0.100	<0.100	
Nickel (mg/L)	<0.050		<0.050		<0.050	<0.050	
Silver (mg/L)	<0.005		<0.005		<0.005	<0.005	
Titanium	<0.100		<0.100		<0.100	<0.100	
Vanadium	<0.100		<0.100		<0.100	<0.100	
Zinc (mg/L)	<0.050		<0.050		<0.050	<0.050	
Group G							
Residue (total)		530		524	571		601
Residue, filterable		535 9		532	1078		536
Residue, nonfilterable Residue, total volatile		107		115	10		14
TSS			NA	110	15 55		129
100		,,,			<u></u>		
ON SITE ANALYSES							
pH (units)		6.5		6.5	6.2		6.4
Temperature (*C)		10		10	15		14
Dissolved Oxygen mg/L		6.35		6.35	6.9		6.9

SAMPLE NUMBERS	GN932037		GN932038		GN932071	GN932108	
	CN932043					CN932110	
	CHIDOODOO		CN932044		CN932073	GN932109	
	GN932039		GN932040		CN932073 GN932072	Thursday, 28 Oct 93	
VOLATILE COMPOLINDS (110/L)			GN932040		GN932072		
VOLATILE COMPOUNDS (ug/L) Bromodichloromethane	GN932039 Tuesday, 26 Oct 93				GN932072 Wednesday, 27 Oct 93	<1.0	
VOLATILE COMPOUNDS (ug/L) Bromodichloromethane Bromoform		4.84	GN932040 Duplicate	4.97	GN932072 Wednesday, 27 Oct 93 3.94	<1.0	
Bromodichloromethane Bromoform Bromomethane	Tuesday, 26 Oct 93	4.84	GN932040	4.97	GN932072 Wednesday, 27 Oct 93	<1.0	
Bromodichloromethane Bromoform	Tuesday, 26 Oct 93	4.84	GN932040 Duplicate <1.0	4.97	GN932072 Wednesday, 27 Oct 93 <1.0		
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene	Tuesday, 26 Oct 93	4.84	GN932040 Duplicate <1.0 <1.0	4.97	GN932072 Wednesday, 27 Oct 93	<1.0	
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorothromomethane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.84	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0	4.97	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 1.37	<1.0 <1.0	
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chlorothane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	<1.0 <1.0 <1.0	
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane 2-Chlorethylvinyl Ether	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0	
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorodiromomethane Chloroethane 2-Chlorethylvinyl Ether Chloroform	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1.0 <1.0 <1.0 <1.0 <1.0	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobiromomethane Chloroethane 2-Chloroethylvinyl Ether Chloroform Chloroform Chloroform	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 - <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane 2-Chlorethylvinyl Ether Chloroform Chloromethane 1,2-Dichlorobenzene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 - <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloromethane Chloroethane 2-Chlorethylvinyl Ether Chloromethane Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane 2-Chlorethylvinyl Ether Chloroform Chloromethane 1,2-Dichlorobenzene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 - <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane 2-Chlorethylninyl Ether Chlorocethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorotethane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chloroberzene Chlorobethane Chlorobethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorobenzene 1,1-Dichlorobenzene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane 2-Chlorethylinyl Ether Chlorotethylinyl Ether Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorodimomethane Chloroethane 2-Chlorethylvinyl Ether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloromethane Chloroethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene Dichlorofilloromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroptopane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromodorm Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane Chlorotethane Chlorotethylinyl Ether Chlorotethane 1,2-Dichlorobenzene Dichlorofidipromethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethene Trans-1,2-Dichlorotethene Trans-1,2-Dichlorotethene 1,2-Dichloropropane Cis-1,3-Dichloropropene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	(1.0 (1.0	5.23
Bromodichloromethane Bromoform Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorodimomethane Chloroethane 2-Chlorethylninyl Ether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene Trans-1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorothane 1,1-Dichlorothane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromolorm Bromolorm Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane Chlorotethane Chlorotethylinyl Ether Chlorotethane 1,2-Dichlorobenzene Dichlorodifloromethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethene Trans-1,2-Dichlorotethene Trans-1,3-Dichloropropene Cis-1,3-Dichloropropene Ethyl Benzene Methylene Chlonde	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chloroberzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dichloroberzene 1,3-Dichloroberzene 1,4-Dichloroberzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloropropene Trans-1,2-Dichloropropene Cis-1,3-Dichloropropene Ethyl Benzene Methylene Chloride 1,1,2-Z-Etrachloroethane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothane Cis-1,3-Dichlorothane Chloride Chloride Chloride Chloride Chlorothylene Chlorothylene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	(1.0 (1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chloroberzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dichloroberzene 1,3-Dichloroberzene 1,4-Dichloroberzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloropropene Trans-1,2-Dichloropropene Cis-1,3-Dichloropropene Ethyl Benzene Methylene Chloride 1,1,2-Z-Etrachloroethane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorodibromomethane Chlorotethane Chlorodibromomethane Chlorotethane Chlorotethane Chlorotethane 1.2-Citholrotethane 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodifloromethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cist-1,3-Dichloropropene Ethyl Benzene Methylene Chloride 1,1,2-Z-Tetrachlorotethane Tetrachlorotethylene Toluene 1,1,1-Trichlorotethane 1,1,1-Trichlorotethane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	110	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroptopene Trans-1,2-Dichloroptopene Ethyl Benzene Bethylene Chloride 1,1,2-Tetrachloroethane 1,1,2-Tetrachloroethane Tetrachloroethylene Tetulene Tetralioroethylene Tetulene 1,1,1-Tirchloroethane 1,1-Tirchloroethane	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothane Cis-1,3-Dichloroptopene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloroptopene Cis-1,3-Dichloroptope	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane Chlorotethane Chlorotethane Chlorotethylinyl Ether Chlorotethylinyl Ether Chlorotethylinyl Ether Chlorotethylinyl Ether Chlorotethylinyl Ether Chlorotethylinyl Ether Chlorotethane 1,2-Dichlorotenzene 1,2-Dichlorotenzene Dichlorodifloromethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethene Trans-1,2-Dichlorotethene Trans-1,3-Dichloropropene Ethyl Benzene Methylene Chloride 1,1,2-Tetrachlorotethane 1,1,1-Tinchlorotethane 1,1,1-Tinchlorotethane 1,1,1-Tinchlorotethane Tinchlorotethylene Toluene Trichlorotethylene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	5.23
Bromodichloromethane Bromodorm Bromomethane Carbon tetrachloride Chloroberzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,3-Dichloroberzene 1,4-Dichloroberzene Dichlorodifluoromethane 1,1-Dichloroethane Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroperpene Ethyloropropane Cis-1,3-Dichloropropene Ethyloropropane Ethyloropropene Ethyloropropene Ethyloropropene Ethyloropropene Ethyloropropene Ethyloropropene Ethyloropropene Ethyloropropene Tetrachloroethane 1,1,2-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane Tichloroethylyene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.23
Bromodichloromethane Bromoform Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorodibromomethane Chlorotethane Chlorotethylinyl Ether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethene Trans-1,2-Dichloropropane Gis-1,3-Dichloropropane Gis-1,3-Dichloropropane Ethyl Benzene Methylene Chloride 1,1,2-Tetrachlorotethane 1,1,1-Tinchlorotethane 1,1,1-Tinchlorotethane 1,1,1-Tinchlorotethane 1,1,1-Tinchlorotethane 1,1,1-Tinchlorotethane Tinchlorotethylene Toluene Trichlorotethylene	Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.54	GN932040 Duplicate <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	1.69	GN932072 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	5.23

TABLE DA-3, SITE 1, BASE EFFLUENT TO BOX ELDER CREEK Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: Base Sanitary and Industrial Discharges

Contributing Sources: Base Sanitary and Indus	strial Discharges	
Total Toxic Organics 624&625 (ug/L)	COLLECTION DATE	COLLECTION DATE
Volstile Compounds	Saturday, 23 Oct 93	Wed, 27 Oct 93
Benzene Bromodichloromethane	<5.0 <5.0	< 5.0
Bromoform	< 5.0 < 5.0	< 5.0
Bromomethane	<10.0	<5.0 <10.0
Carbon tetrachloride	< 5.0	<5.0
Chlorobenzene	< 5.0	< 5.0
Chloroethane 2-Chloroethyvinylether	<10.0	<10.0
Chloroform	< 10.0	<10.0
Chloromethane	< 5.0 < 10.0	<5.0
Dibromochloromethane	<5.0	<10.0 <5.0
1,2-Dichlorobenzene	<5.0	<5.0
1,3-Dichlorobenzene	<5.0	<5.0
1,4-Dichlorobenzene	< 5.0	< 5.0
1,1-Dichloroethane 1,2-Dichloroethane	<5.0	< 5.0
1,1-Dichloroethene	<5.0	< 5.0
cis-1,2-Dichloroethene	< 5.0 < 5.0	<5.0 <5.0
Trans-1,2-Dichloroethene	<5.0	<5.0
1,2-Dichloropropane	<5.0	< 5.0
Cis-1,3-Dichloropropene	< 5.0	<5.0
Trans-1,3-Dichloropropene	< 5.0	< 5.0
Ethylbenzene Methylene Chloride	< 5.0	< 5.0
Methylene Chloride 1,1,2,2-Tetrachloroethane	< 5.0	< 5.0
Tetrachloroethene	< 5.0 < 5.0	<5.0
Toluene	<5.0	<5.0 <5.0
1,1,1-Trichloroethane	< 5.0	<5.0
1,1,2-Trichloroethane	< 5.0	<5.0
Trichloroethylene Trichloroftysee at a second secon	< 5.0	< 5.0
Trichlorofluoromethane Vinyl Chloride	< 10.0	<10.0
The same of the sa	<10.0	<10.0
Base Neutral Compounds (ug/L)		
Acenapthene	< 10.0	<10.0
Acenaphthylene	< 10.0	<10.0
Anthracene	< 10.0	<10.0
Benzo(a)anthiacene	< 10.0	<10.0
Benzo(b)fluoranthene Benzo(a)pyrene	<10.0	< 10.0
Benzo(g,h,i,)perylene	<10.0 <10.0	< 10.0
Bis(2-chloroethyl)ether	<10.0	<10.0 <10.0
Bis(2-chloroethoxy)methane	< 10.0	<10.0
Bis(2-chloroisopropal)ether	< 10.0	< 10.0
Bis(2-ethylhexyl)phthalate	<10.0	15
4-Bromophenyl-pheniether Butylbenzylphthalate	< 10.0	<10.0
2-Chloronaphthalene	<10.0 <10.0	<10.0
4-Chlorophenyl-pheniether	<10.0	<10.0
Chrysene	<10.0	<10.0 <10.0
Dibenzoa, hanthracene	<10.0	<10.0
Di-n-buttphthalate	< 10.0	< 10.0
1,2-Dichlorobenzene	<10.0	< 10.0
1,3-Dichlorobenzene 1,4-Dichlorobenzene	<10.0	<10.0
3,3'-Dichlosopenzidine	<10.0 <20.0	<10.0
Diethylphthalare	<10.0	<20.0
Dimethyl phthalate	<10.0	<10.0 <10.0
2,4-Dinitrotoluene	<10.0	<10.0
2,6-Dinitrotoluene	<10.0	<10.0
Di-n-octylphthalate Fluoranthene	<10.0	<10.0
Ruorene	<10.0	<10.0
Hexachlorobenzene	<10.0 <10.0	<10.0
Hexachiorobutadiene	<10.0	< 10.0 < 10.0
Hexachlorocyclopentadiene	<10.0	<10.0 <10.0
Hexachloroethane	<10.0	
		< 10.0
ndeno(1,2,3-cd)pyrene	<10.0	<10.0 <10.0
Indeno(1,2,3-cd)pyrene Isophorone	<10.0 <10.0	<10.0 <10.0
Indeno(1,2,3-cd)pyrene Ikophorone Nophthalene	< 10.0 < 10.0 < 10.0	<10.0 <10.0 <10.0
Indeno(1,2,3-cd)pyrene Sophorone Naphthalene Vitrobenzene	<10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0
indenci 1,2,3-cd) pyrene sopharone Vaphthalene Vitrobenzene V-Nitroso dimethyl amine V-Nitroso din-propylamine	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0
indeno(1,2,3-cd)pyrene isophorone Naphthalene Nitrobenzene V-Nitroso dimethyl amine N-Nitroso dim-propylamine N-Nitrosodiphenylamine	<10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
Indeno(1,2,3-cd)pyrene Isophorone Naphthalene Nitrobenzene N-Nitroad dimethyl amine N-Nitroad dimethyl amine N-Nitroad phenylamine H-Nitroad phenylamine Thenanthinene	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0
Indenci 1, 2, 3-cd) pyrene is sophorone is sophorone is sophorone in the control of the control	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
Indenci 1, 2, 3-cd) pyrene is sophorone is sophorone is sophorone in the control of the control	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
Indeno(1,2,3-cd)pyrene Isophorone Naphthalene Nitrobenzene N-Nitroso dimethyl amine N-Nitrosodiphenylamine N-Nitrosodiphenylamine H-Nitrosodiphenylamine H-Nitrosodiphenylamine H-Natrosodiphenylamine H-Indenomine H	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
indeno(1,2,3-cd)pyrene isophorone isophorone isophorone isophorone isophorone indenomination ind	<pre><10.0 <10.0 /pre>	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
indenot 1, 2,3-cd) pyrene is sophorone sophoro	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
Indenot [1,2,3-cd) pyrene Sophotone Naphthalene Vitrobenzene N-Nitroso dimethyl amine Themarithene Themarithene Tyrene [2,2-4-Tichlorobenzene Add Compounds (ug/L) **Chloro-m-cresol** -Chloro-m-cresol** -Chlorophenol**	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
Indenol 1, 2, 3-cd) pyrene Isophorone Naphthalene Nitrobenzene N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine Thenanthinene Pyrene 1, 2, 4-1 Tichlorobenzene Add Compounds (ug/L) P-Chlorom-ciesod	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
indenot 1,2,3-cd) pyrene is sophorone value in the control of the	<pre><10.0 <10.0 /pre>	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
indenol 1,2,3-cd) pyrene is sophorone in the soph	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<pre><10.0 <10.0 <</pre>
ndenol 1, 2,3-cd) pyrene sophorone sophorone sophorone sophorone sophorone sophorone sophorone some sophorone some some some some some some some som	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	C10.0 C10.
Indenot 1, 2,3-cd) pyrene Isophorone Vaphthalene Vitrobenzene V-Nitroso dimethyl amne V-Nitrosodiphenylamine V-Nitrosodiphenylamine V-Nitrosodiphenylamine Menanthinene Pyrene 1,2,4-Trichlorobenzene Add Compounds (ug/L) -Chloro-m-cresol -Chorophenol 2,4-Dintophenol 4,4-Dintrophenol 4,5-Dintrophenol -(1,0-Dintrophenol	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0
indenol 1, 2, 3-cd) pyrene is apphrone. Vaphthalene is a phorone. Vaphthalene is a phorone. Value is a pho	<pre><10.0 <10.0 <</pre>	C10.0 C10.
Indenol 1, 2, 3-cd) pyrene Sephorone Naphthalene Nitrobenzene N-Nitroso dimethyl amine N-Nitroso dimethyl amine N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrosodiphenylamine N-Nitrobenol N-Nitrobenol N-Nitrophenol	<pre><10.0 <10.0 <</pre>	C10.0 C10.
Indenol 1, 2, 3-cd) pyrene Isophorone Nephthelene Nitrobenzene N-Nitroso dimethyl amine N-Nitros	<pre><10.0 <10.0 <</pre>	C10.0 C10.
Indenol 1, 2, 3-cd) pyrene Isophorone Naphthalene Nitrobenzene N-Nitroso dimethyl amine N-Nitroso dimethyl amine N-Nitrosodiphenylamine H-Nitrosodiphenylamine Phrenanthinee Pyrene 1, 2, 4-1 Trichlorobenzene Add Compounds (ug/L) P-Chlorom-cresol 2-Chorophenol 2, 4-Diethylphenol 2, 4-Diethylphenol 2, 4-Diethylphenol 2, 4-Diethylphenol 2-Nitrophenol 3-Nitrophenol 4-Nitrophenol 3-Nitrophenol 4-Nitrophenol 6-Pinitro-z-methylphenol 8-Nitrophenol	<pre><10.0 <10.0 <</pre>	C10.0 C10.

TABLE DA-4, SITE 1, BASE EFFLUENT TO BOX ELDER CREEK Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993

Contributing Sources: Base Sanitary and Industrial Discharges

	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE
PCB's & PESTICIDES (ug/L)	Saturday, 23 Oct 93	Tuesday, 26 Oct 93	Wednesday, 27 Oct 93	Thursday, 28 Oct 93
Alpha-BHC	< 0.05	<0.05	< 0.05	< 0.05
Beta-BHC	< 0.05	< 0.05	< 0.05	< 0.05
Delta-BHC	<0.05	< 0.05	<0.05	<0.05
Lindane	< 0.05	< 0.05	<0.05	< 0.05
Heptachlor	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor Epoxide	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	< 0.05	<0.05	< 0.05	<0.05
Dieldrin	<0.10	<0.10	< 0.10	<0.10
4,4' DDE	<0.10	<0.10	<0.10	<0.10
Endrin	<0.10	<0.10	< 0.10	<0.10
Endosulfan II	<0.10	<0.10	< 0.10	<0.10
4,4" DDD	<0.10	< 0.10	<0.10	<0.10
Endosulfan Sulfate	<0.10	<0.10	< 0.10	<0.10
4,4-DDT	< 0.10	<0.10	< 0.05	< 0.05
Endrin Ketone	NA	NA	NA	NA
Methoxychlor	< 0.50	< 0.50	NA	NA
Chlordane	< 1.00	<1.00	< 1.00	<1.00
Alpha-Chiorodans	NA	NA	NA	NA
Gamma-Chiorodane	NA	NA	NA	NA
Toxaphane	<1.00	<1.00	< 1.00	< 1.00
Endrin Aldehyde	<0.1	<0.10	< 0.10	<0.10
Arochior 1016	<0.50	< 0.50	< 0.50	< 0.50
Arochlor 1221	<0.50	< 0.50	< 0.50	< 0.50
Arochior 1232	<0.50	<0.50	< 0.50	< 0.50
Arochlor 1242	< 0.50	< 0.50	< 0.50	< 0.50
Arochlor 1248	<0.50	< 0.50	< 0.50	< 0.50
Arochior 1254	< 1.00	<1.00	<1.00	<1.00
Arochlor 1260	<u> <1.00</u>	< 1.00	<1.00	<1.00
Sample numbers	CN931064	CN932041	CN932074	CN932112
NA = Not Analyzed				

TABLE DB-1, SITE 2, SANITARY LINE INFLUENT TO PLANT Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: Base Sanitary and Industrial Discharges

	COLLECTION DATE				dustrial Discharge	COLLECTION DATE	
GROUP A ANALYTES	Thursday, 21 Oct 93		Friday, 22 Oct 93		Saturday, 23 Oct 93	Monday, 25 Oct 93	
Ammonia (mg/L)		14.8		8.8).6	2.6
Kjeldahl Nitrogen (total)		19.5		15.5		14	5.6
Nitrate(as Nitrogen)		0.26		0.4		38	0.42
Nitrite (as Nitrogen)	<.02		<.02		<.02	<.02	0.44
Chemical Oxygen Demand (mg/L)		37		40		80	62
Oil and Grease (mg/L)		5.9		3.5		2.3	2.7
Total Petroleum Hydrocarbon (mg/L)		1			<1	<1	2.1
Total Phosphorus (mg/L)		1.8		2.9		.9	0.87
							U.67
Group D ANALYTES							
Cyanide (mg/L)		0.124	<.005		0.0	65 <.005	
					5.9	00 1.000	
					 -	1	
Group E ANALYTES			İ				
Phenois (ug/L)	<10			13	<10	<10	
1.55	- 1 '				110	1410	
GROUP F ANALYTES						 	
Aluminum		0.131	<0.100		0.1	17	
Arsenic (mg/L)	<0.010	0.10.	<0.010		<0.010	<0.010	0.1
Barium	40.010	0.052	<0.100		<0.100		
Beryllium (mg/L)	<0.010	0.032	<0.010		<0.010	<0.100	
Cadmium (mg/L)		0.002	<0.001		<0.001	<0.010	
Calcium		57.59		75		<0.001	
Total Chromium (mg/L)	<0.050	57.59	<0.050	/5			82
Cobalt	<0.100				<0.050	<0.050	
Copper (mg/L)	70.100	0.000	<0.100		<0.100	<0.100	
Iron (mg/L)			<0.020	0.040		23 <0.020	
	<0.020	0.404		0.243			0.12
Lead (mg/L)	₹0.020	20.00		0.031	0.0		0.02
Magnesium (mg/L)		38.08		36.59			40
Manganese (mg/L)	40.004	0.123		0.126			0.11
Mercury (mg/L)	<0.001		<0.001		<0.001	<0.001	
Molybdenum	<0.100		<0.100		<0.100	<0.100	
Nickel (mg/L)	<0.050		<0.050		<0.050	<0.050	
Silver (mg/L)	<0.005		<0.005		<0.005	<0.005	
Titanium	<0.100		<0.100		<0.100	<0.100	
Vanadium	<0.100		<0.100		<0.100	<0.100	
Zinc (mg/L)	<0.050		<0.050		<0.050	<0.050	
Group G							
TSS		68		47		31	58
ON SITE ANALYSES							
pH (units)		6.6		6.4	E	.5	6.5
Temperature (*C)		13		13		4	12
Dissolved Oxygen mg/L		3.9		7.4			5.75
SAMPLE NUMBERS	GN931004		GN931039		GN931066	GN932009	
	CN931006		CN931041		CN931068	CN932011	
	GN931005		GN931040		CN931067	GN932010	
		-					
VOLATILE COMPOUNDS (ug/L)	Thursday, 21 Oct 93		Friday, 22 Oct 93		Saturday, 23 Oct 93		
VOLATILE COMPOUNDS (ug/L) Benzene	Thursday, 21 Oct 93 <1.0		Friday, 22 Oct 93 <1.0		Saturday, 23 Oct 93 <1.0	Monday, 25 Oct 93	
					<1.0	Monday, 25 Oct 93 <1.0	-
Benzene	<1.0		<1.0			Monday, 25 Oct 93 <1.0 <1.0	
Benzene Bromodichloromethane	<1.0 <1.0		<1.0 <1.0		<1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromoform	<1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromoform Bromomethane	<1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorotenane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorotenane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chlorofomm	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromodichlorom Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloromethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromodichlorom Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloromethane Chlorodibromomethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane Chloroffm Chloromethane Chloroficm Chloroficmomethane 1,2-Dichlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	170
Benzene Bromodichloromethane Bromodichloromethane Bromodichlorom Bromomethane Carbon tetrachloride Chlorobenzene Chloroethyvinylether Chloroform Chloroform Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane Chloroethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,5-Dichlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloromethane 1,1-Dichloroethane 1,1-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorodifluoromethane Dichlorodifluoromethane 1,1-Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane Chloroethyvilether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromodichlorom Bromomethane Carbon tetrachloride Chloroethane 2-Chloroethane 2-Chloroethyvinylether Chloroethane Chlorodibromomethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichloromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichloroethane Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane Chloroethane Chloroferm Chloromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,3-Dichloroethene 1,3-Dichloroethene 1,3-Dichloroethene 1,3-Dichloroethene 1,3-Dichloroethene 1,3-Dichloroethene 1,3-Dichloroethene 1,3-Dichloroethene 1,3-Dichloroethene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromodichlorom Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethyvinylether Chloroffm Chloromethane Chloroffbromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorotenene 1,1-Dichlorotenene 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,3-Dichlorotethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroform Chloromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloropropene 1,3-Dichloropropene 1,3-Dichloropropene 1,3-Dichloropropene 1,3-Dichloropropene 1,3-Dichloropropene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromodom Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethyvinylether Chloroffrom Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,3-Dichlorothane 1,3-Dichlorothane 1,3-Dichlorothane 1,3-Dichlorothane 1,3-Dichlorothane 1,3-Dichlorothane 1,3-Dichloropropane Cis-1,3-Dichloropropane Cithylbenzene Ethylbenzene Methylene Chloride 1,1.2.2-Tetrachloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	1.73
Benzene Berondichloromethane Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane 1,1-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Citylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Cetrachloroethane Cetrachloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	1.73
Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chlorofterm Chloromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Ietrachloroethylene Toluene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.16	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	1.73
Benzene Bernodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane Chloroformomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloropropane Dis-1,3-Dichloropropane Eitrans-1,3-Dichloropropane Eitrans-1,3-Dichloropropane Eitrylbenzene Methylene Chloride 1,1,2-Tertachloroethane Tetrachloroethylene Toluene Toluene 1,1-Trichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.18	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	1.73
Benzene Berondichloromethane Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropethane 1,1-Dichloropethane 1,1-Dichloropethane 1,1-Dichloropethane 1,1-Dichloropenpene Cis-1,3-Dichloropropene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	
Benzene Beromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chlorofthromomethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane 1,1-Trichloroethane 1,1,1-Trichloroethane Int.1,2-Trichloroethane Int.1,1-Trichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75 11.18 1.07	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.09	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	1.73
Benzene Bernodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropene Ethylbenzene Ethylbenzene Methylene Chloride Methyloroethane 1,1,2-Tertachloroethane Ethylbenzene Methylene Chloride 1,1,2-Trichloroethane It,1,2-Trichloroethane It,1,2-Trichloroethane It,1-Trichloroethane It,1-Trichloroethane Itholoroethylene Inchloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75 11.18 1.07	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.09	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	
Benzene Berondichloromethane Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropenzene 1,1-Dichloroethane 1,1-Dichloropenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloropenpene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,1-Trichloroethane Intachloroethyiene Inture Intuition Intuitio	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75 11.18 1.07	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.67 1.09	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	
Benzene Beromotichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chlorofthoromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane Inchloroethylene Inchlorofloromethylene Inchlorofloromethylene Inchlorofloromethylene Inchlorofloromethylene Inchlorofloromethylene Inchloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75 11.18 1.07	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.09	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	
Benzene Bernodichloromethane Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irans-1,3-Dichloropropene Irins-1,3-Dichloropropene Irins-1,3-Trichloroethane I-1,2-Trichloroethane I-1,1-Trichloroethane I-1,2-Trichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.18 1.07 11.5	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.09	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	
Benzene Beromotichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chlorofthoromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane 1,1-Tichloroethane Inchloroethylene Inchlorofloromethylene Inchlorofloromethylene Inchlorofloromethylene Inchlorofloromethylene Inchlorofloromethylene Inchloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.75 11.18 1.07	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.09	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Monday, 25 Oct 93	

TABLE DB-2, SITE 2, SANITARY LINE EFFLUENT TO PLANT Base Survey: ELLSWORTH AIR FORCE BASE

Contr			: 18-29 October 1		
Conti	COLLECTION DAT	s: base	Sanitary and Indu	COLLECTION DATE	COLLECTION DATE
GROUP A ANALYTES	Tuesday, 26 Oct 93		Tuesday, 26 Oct 93 Duplicate	Wednesday, 27 Oct 93	Thursday, 28 Oct 93
Ammonia (mg/L)		14.4		13.2	16.8
Kjeldahl Nitrogen (total) Nitrate(as Nitrogen)	- 	17 0.38			
Nitrite (as Nitrogen)	<.02	0.38	0.36	0.26	<.02
Chemical Oxygen Demand (mg/L)		85			
Oil and Grease (mg/L)			<0.3 Duplicate	4.9	
Total Petroleum Hydrocarbon (mg/L)			<1.0 Duplicate	<1	1.3
Total Phosphorus (mg/L)		2.7	2.6	3.4	2.6
Group D ANALYTES					
Cyanide		0.005	<0.005	0.005	2.5
				0.550	2.5
Group E ANALYTES					
Phenois (ug/L)	<10		<10	<10	<10
GROUP F ANALYTES					
Aluminum		0.22	0.22	0.46	<0.100
Arsenic (mg/L)	<0.010		<0.010	<0.010	<0.010
Barium	<0.100		<0.100	<0.100	<0.100
Beryllium (mg/L)	<0.010		<0.010	<0.010	<0.010
Cadmium (mg/L) Calcium	<0.001	80	0.01 79	<0.001	<0.001
Total Chromium (mg/L)	<0.050	80	<0.050	<0.050	<0.050 70
Cobalt	<0.100		<0.100	<0.100	<0.100
Copper (mg/L)	0.033		0.029	0.064	<0.020
Iron (mg/L)		0.41	0.49	0.99	
Lead (mg/L) Magnesium (mg/L)	<0.020	27	<0.020	0.263	
Manganese (mg/L)		0.13	37 0.13	33 0.11	
Mercury (mg/L)	<0.001	0.13	<0.001		<0.001
Molybdenum	<0.100		<0.100	<0.100	<0.100
Nickel (mg/L)	<0.050		<0.050	<0.050	<0.050
Silver (mg/L)	<0.005		<0.005	<0.005	0.008
Titanium	<0.100		<0.100	<0.100	<0.100
Vanadium Zinc (mg/L)	<0.100	0.055	<0.100	<0.100	<0.100
Zine (mg/L)		0.033	0.035	0.075	<0.050
Group G			Duplicates		
TSS		18		76	
OLI OUTE AND WOED					
ON SITE ANALYSES pH (units)		6.6		6.7	
Temperature (*C)		11		6.7	6.4
Dissolved Oxygen mg/L		5.5	***************************************	6.1	
SAMPLE NUMBERS	GN932045		GN932046	GN932077	GN932113
	CN932051			CN932079	CN932115
	CN932047		CN932048	GN932078	GN932114
VOLATILE COMPOUNDS (ug/L)	Tuesday, 26 Oct 93		Tuesday, 26 Oct 93 Equip Blank	Wednesday 27 Oct 02	Thursday, 28 Oct 93
Benzene	<1.0			<1.0	<1.0
Bromodichloromethane	<1.0				<1.0
Bromoform	<1.0				<1.0
Bromomethane	<1.0				<1.0
Carbon tetrachloride Chlorobenzene	<1.0 <1.0				<1.0
Chloroethane	<1.0			<1.0 <1.0	<1.0 <1.0
2-Chloroethyvinylether	<1.0			<1.0	<1.0
Chloroform	<1.0			<1.0	<1.0
Chloromethane	i<1.0			<1.0	<1.0
Chlorodibromomethane	<1.0				<1.0
1,2-Dichlorobenzene 1,3-Dichlorobenzene	<1.0 <1.0			<1.0 <1.0	<1.0
1,4-Dichlorobenzene	151.0	2.59		4.13	<1.0 2.56
Dichlorodifluoromethane	<1.0			<1.0	1.11
1,1-Dichloroethane	<1.0				<1.0
1,2-Dichloroethane	<1.0			<1.0	<1.0
1,1-Dichloroethene	<1.0				<1.0
Trans-1,2-Dichloroethene 1,2-Dichloropropane	<1.0 <1.0			<1.0	<1.0
Cis-1,3-Dichloropropene	<1.0			<1.0 <1.0	<1.0 <1.0
Trans-1,3-Dichloropropene	<1.0			<1.0	<1.0
Ethylbenzene	<1.0			<1.0	<1.0
Methylene Chloride	<1.0		<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0			<1.0	<1.0
Tetrachloroethylene Toluene	- I C S O	1.15			<1.0
.1,1-Trichloroethane	<1.0 <1.0			<1.0 <1.0	<1.0
.1,1-1 nchloroethane	<1.0			<1.0	<1.0 <1.0
Trichloroethylene		13.89		11.6	
richlorofluoromethane	<1.0			<1.0	<1.0
Vinyl Chloride	<1.0		<1.0	<1.0	<1.0
n-Xylene	<1.0			<1.0	<1.0
o-Xylene	<1.0			<1.0	<1.0
p-Xylene	<1.0		1.68	<u>~1.0</u>	<1.0
					,

TABLE DB-3, SITE 2, SANITARY LINE INFLUENT TO PLANT Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: Base Sanitary and Industrial Discharges

Contributing Sources: Base Sanitary and Indust		
Total Toxic Organics 624 & 625 (ug/L)	COLLECTION DATE Saturday, 23 Oct 93	COLLECTION DATE
Votatile Compounds Benzene	Saturday, 23 Oct 93 <5.0	Wed, 27 Oct 93 <5.0
Bromodichloromethane	<5.0 <5.0	<5.0 <5.0
Bromoform	<5.0	<5.0
Bromomethane	<10.0	<10.0
Carbon tetrachloride	<5.0	<5.0
Chlorobeage	<5.0 <10.0	<5.0 <10.0
Chloroethane 2-Chloroethyvinylether	<10.0	<10.0 <10.0
Chloroform	<5.0	<5.0
Chloromethane		<10.0
Dibromochloromethane	<5.0	<5.0
1,2-Dichlorobenzene	< <5.0	<5.0
1,3-Dichlorobenzene 1,4-Dichlorobenzene	<5.0 <5.0	<5.0 - 9
1,1-Dichloroethane	<5.0	<5.0
1,2-Dichloroethane	<5.0	<5.0
1.1-Dichloroethene	<5.0	<5.0
cis-1,2-Dichloroethene	<5.0	<5.0
Trans-1,2-Dichloroethene 1,2-Dichloropropane	<5.0 <5.0	<5.0 <5.0
Cis-1,3-Dichloropropene	<5.0 <5.0	<5.0
Trans-1,3-Dichloropropene		<5.0
Ethylbenzene	<5.0	<5.0
Methylene Chloride	<5.0	<5.0
1,1,2,2-Tetrachloroethane	<5.0	<5.0
Tetrachloroethene Toluene	<50.0 <5.0	<5.0 <5.0
1.1.1-Trichloroethane	<5.0 <5.0	<5.0 <5.0
1,1,2-Trichloroethane	<5.0	<5.0
Trichloroethylene	<5.0	
Trichlorofluoromethane	<10.0	<10.0
Vinyl Chloride	<10.0	<10.0
Base Neutral Compounds (ug/L)		
Acenapthene	<10.0	<10.0
Acenaphthylene	<10.0	<10.0
Anthracene	<10.0	<10.0
Benzidene	<5.0	26
Benzo(a)anthracene Bis(2-chloroethoxy)methane	<10.0 <10.0	<10.0 <10.0
Bis(2-chloroisopropal)ether	<10.0	<10.0
Bis(2-ethylhexyl)phthalate	<10.0	33
4-Bromophenyl-pheniether	<10.0	<10.0
Butylbenzylphthalate		<10.0
2-Chloronaphthalene 4-Chlorophenyl-phenlether	<10.0 <10.0	<10.0 <10.0
4-Chlorophenyi-pheniether Chrysene		<10.0
Dibenzoa,hanthracene	<10.0	<10.0
Di-n-butlphthalate	<10.0	<10.0
1,2-Dichlorobenzene	<10.0	<10.0
1,3-Dichlorobenzene 1.4-Dichlorobenzene		<10.0 <10.0
1,4-Dichlorobenzene (3,3'-Dichlorobenzidine	<20.0	<20.0
Diethylphthalate	<10.0	<10.0
Dimethyl phthalate	<10.0	<10.0
2,4-Dinitrotoluene	<10.0	<10.0
2,6-Dinitrotoluene	<10.0	<10.0
Di-n-octylphthalate Fluoranthene	<10.0 <10.0	<10.0 <10.0
Fluorene	<10.0	<10.0
Hexachlorobenzene	<10.0	<10.0
Hexachlorobutadiene	<10.0	<10.0
Hexachlorocyclopentadiene	<10.0	<10.0
Hexachloroethane Indeno(1,2,3-cd)pyrene	<10.0 <10.0	<10.0 <10.0
Isophorone	<10.0	<10.0
Naphthalene	<10.0	<10.0
Nitrobenzene	<10.0	<10.0
N-Nitroso dimethyl amine	<10.0	<10.0
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	<10.0 <10.0	<10.0 <10.0
Phenanthrene	<10.0	<10.0
Pyrene	<10.0	<10.0
1,2,4-Trichlorobenzene	<10.0	<10.0
Acid Compounds (upl)		
Acid Compounds (ug/L) P-Chloro-m-cresol	<10.0	<10.0
2-Chorophenol	<10.0	<10.0
2.4-Dichorophenol	<10.0	<10.0
2,4-Dimethylphenol	<10.0	<10.0
2,4-Dinitrophenol	<50.0 <50.0	<50.0
4,6-Dinitro-2-methylphenol 2-Nitrophenol	<50.0 <10.0	<50.0 <10.0
4-Nitrophenol	<50.0	<50.0
Pentachlorophenol	<50.0	<50.0
Phenol	<10.0	<10.0
2,4,6-Trichlorophenol	<10.0	<10.0
Sample Number	CN931070	CN932080
Gampie Humber	GN931088	GN932081
		

TABLE DB-4, SITE 2, SANITARY LINE INFLUENT TO PLANT Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993

Contributing Sources: Base Sanitary and Industrial Discharges

	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE
PCB's & PESTICIDES (ug/L)	Saturday, 23 Oct 93	Tuesday, 26 Oct 93	Wednesday, 27 Oct 93	Thursday, 28 Oct 93
Alpha-BHC	<0.05	<0.05	<0.05	<0.05
Beta-BHC	<0.05	<0.05	<0.05	<0.05
Delta-BHC	<0.05	<0.05	<0.05	<0.05
Lindane	<0.05	<0.05	<0.05	<0.05
Heptachlor	<0.05	<0.05	<0.05	<0.05
Aldrin	<0.05	<0.05	<0.05	<0.05
Heptachlor Epoxide	<0.05	<0.05	<0.05	<0.05
Endosulfan I	<0.05	<0.05	<0.05 -	<0.05
Deildrin	<0.10	<0.10	<0.10	<0.10
4,4' DDE	<0.10	<0.10	<0.10	<0.10
Endrin	<0.10	<0.10	<0.10	<0.10
Endosulfan II	<0.10	<0.10	<0.10	<0.10
Chlordane	<1.00	<1.00	<1.00	<1.00
4,4' DDD	<0.10	<0.10	<0.10	<0.10
Endosulfan Sulfate	<0.10	<0.10	<0.10	<0.10
4,4-DDT	<0.05	<0.05	<0.05	<0.05
Endrin Ketone	NA	NA	NA	NA
Methoxychlor	<0.50	<0.50	<0.50	<0.50
Alpha-Chlorodane	NA	NA	NA	NA
Gamma-Chlorodane	NA	NA	NA	NA
Toxaphene	<1.00	<1.00	<1.00	<1.00
Endrin Aldehyde	<0.10	<0.10	<0.10	<0.10
Arochlor 1016	<0.50	<0.50	<0.50	<0.50
Arochlor 1221	<0.50	<0.50	<0.50	<0.50
Arochlor 1232	<0.50	<0.50	<0.50	<0.50
Arochlor 1242	<0.50	<0.50	<0.50	<0.50
Arochlor 1248	<0.50	<0.50	<0.50	<0.50
Arochlor 1254	<1.00	<1.00	<1.00	<1.00
Arochlor 1260	<1.00	<1.00	<1.00	<1.00
Sample numbers	CN931070	CN932050	CN932080	CN932117

TABLE DC-1, SITE 3, MIDWEST BASE Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: Vehicle Maintenance, C.E. and BOQ

	COLLECTION DATE		waintenance, C.E.	4110 00		
GROUP A ANALYTES	Thursday, 21 Oct 93		COLLECTION DATE		COLLECTION DATE	
Chemical Oxygen Demand (mg/L)	muladay, 21 Oct 95	850	Friday, 22 Oct 93	FOR	Saturday, 23 Oct 93	
Oil and Grease (mg/L)		13.6		525 53.2	Not Performed	
Total Petroleum Hydrocarbon (mg/L)		4.9		14,4		10.4
Total Phosphorus (mg/L)		11.4		8		1.4 7.4
GROUP D ANALYTES						
Cyanide (mg/L)	<.005			0.005	<.005	
COOLID E ANIALYCES						
GROUP E ANALYTES Phenols (ug/L)						
Priendis (bg/L)		43		65		43
GROUP F ANALYTES						
Aluminum		2.335		0.000		
Arsenic (mg/L)	<0.010	2.333	<0.010	0.983	<0.010	0.713
Barium		0.233	<0.100		CO.010	
Beryllium (mg/L)	<0.010		<0.010		<0.010	0.105
Cadmium (mg/L)		0.003		0.001		0.004
Calcium		68.98		49.88		46.49
Total Chromium (mg/L)	<0.050		<0.050		<0.050	
Copper (mg/L)		0.556		0.118		. 0.144
iron (mg/L)		4.184		0.566		0.655
Lead (mg/L) Magnesium (mg/L)		0.188		0.025		0.201
Manganese (mg/L)		24.44		21.56		20.166
Mercury (mg/L)	<0.001	0.185	c0.004	0.052	<0.050	
Molybdenum	<0.100		<0.001 <0.100		<0.001	
Nickel (mg/L)	<0.050		<0.050	·	<0.100	
Silver (mg/L)	<0.005		<0.005		<0.050 <0.005	
Titanium	<0.100		<0.100		<0.100	
Vanadium	<0.100		<0.100		<0.100	
Zinc (mg/L)		0.398		0.133	-0.100	0.08
						0.00
ON SITE ANALYSES						
pH (units)		6.4		8		6.4
Temperature (°C)		17		19		19
GROUP G ANALYTES						
TSS		151		40.		
		151		134		26
SAMPLE NUMBERS	GN931026		GN931052		GN931084	
	CN931028		CN931054		CN931086	
	CN931027		GN931053		CN931085	
VOLATILE COMPOUNTS : ::						
VOLATILE COMPOUNDS (ug/L)	Thursday, 21 Oct 93		Friday, 22 Oct 93		Saturday, 23 Oct 93	
Benzene Bromodichloromethane	<1.0 <1.0		<1.0		<1.0	
Bromoform	<1.0		<1.0		<1.0	
Bromomethane	<1.0		<1.0 <1.0		<1.0	
Carbon tetrachloride	<1.0		<1.0		<1.0	
Chlorobenzene	<1.0		<1.0		<1.0 <1.0	
Chloroethane	<1.0		<1.0			
2-Chloroethyvinylether	<1.0				<1.0	
Chloroform	1.4.6		<1.0		<1.0 <1.0	
Chloromethane	<1.0		<1.0		<1.0 <1.0 <1.0	
	<1.0		<1.0 <1.0		<1.0 <1.0 <1.0	
Chlorodibromomethane	<1.0 <1.0		<1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0	
Chlorodibromomethane 1,2-Dichlorobenzene	<1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0	
Chlorodibromomethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene	<1.0 <1.0		<1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0	
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene	<1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane	<1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene Trans-1,2-Dichloropropane Cis-1,3-Dichloropropane	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene Trans-1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Z-Tetrachloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethane	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene Trans-1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Tichloroethane	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropane Cis-1,3-Dichloropropene 1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Z-Tetrachloroethane Tetrachloroethane Tetrachloroethane Toluene 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,1-Trichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Z-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	9.34	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichloroethene Trichloroethene Trichlorofluoromethane	1.0 1.0	156.99	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32
Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichlorofluoromethane Vinyl Chloride	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	156.99	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.87	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8.32

TABLE DD-1, SITE 4, NORTH BRANCH, MANHOLE #63
Base Survey: ELLSWORTH AIR FORCE BASE
Survey Dates: 18-29 October 1993
Contributing Sources: Missle Maintenance, Graphics, and Civil Engineering

ICOLLECTION DATE		COLLECTION DATE	
Thursday, 21 Oct 93			
			123
			1.4
			1.2
	1.3	· · · · · · · · · · · · · · · · · · ·	
	0.63		0.006
 			
<10		7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	27
<0.001		******	0.014
	82		83.31
		<0.100	
<u><0.020</u>	0.356		0.087 2.549
<0.020	0.336		0.023
	45.8		43.223
	0.061		0.225
<0.001			
<0.100			
<0.050		<0.050	0.000
<0.100	0.023		0.023
		<0.100	0,1
<0.050			0.191
- 			6.4 18
	10		10
	200		16
			16
GN931029 GN931031		GN931055	16
CN931031		CN931057	16
			16
CN931031 CN931030 Thursday, 21 Oct 93		CN931057 GN931056 Friday, 22 Oct 93	16
CN931031 CN931030 Thursday, 21 Oct 93		CN931057 GN931056 Friday, 22 Oct 93 <1.0	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 <1.0	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 <1.0	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	16
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931057 GN931056 Friday, 22 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	2.32
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 et.0 et.0 et.0 et.0 et.0 et.0 et.0 et.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
CN931031 CN931030 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	2.63	CN931057 GN931056 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
	COLLECTION DATE Thursday, 21 Oct 93	Thursday, 21 Oct 93 65 21.2 1.2 1.5 1.5 0.63 <10 <10 <0.100 <0.010 <0.010 <0.010 <0.001 <0.001 <0.001 <0.020 0.020 45.8 0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	COLLECTION DATE Thursday, 21 Oct 93 Friday, 22 Oct 93

TABLE DE-1, SITE 5, WEST BRANCH LOCATED ADJACENT TO BUILDING 909 Base Survey: ELLSWORTH AIR FORCE BASE

Contribu	ting Sources: Flightline	Mainte	29 October 1993 nance, PMEL, an	d Logisti	cs Support	
	COLLECTION DATE		COLLECTION DATE		COLLECTION DATE	
GROUP A ANALYTES Chemical Oxygen Demand (mg/L)	Thursday, 21 Oct 93		Friday, 22 Oct 93		Saturday, 23 Oct 93	
Oil and Grease (mg/L)		200 5.4		225		245
Total Petroleum Hydrocarbon (mg/L)		5.4		3.8	<1	4.3
Total Phosphorus (mg/L)		5		4.3	21	
				7.0		
GROUP D ANALYTES						
Cyanide (mg/L)		0.23		0.006		0.675
000000						
GROUP E ANALYTES Phenois (ug/L)						
Friendis (ug/L)		22		18		18
GROUP F ANALYTES						
Aluminum		0.357		0.533		0.233
Arsenic (mg/L)	<0.010		<0.010	0.000	<0.010	0.233
Barium	<0.100		<0.100		<0.100	
Beryllium (mg/L)	<0.010		<0.010		<0.010	
Cadmium (mg/L)		0.028		0.005		0.002
Calcium		77.43		70.45		70.61
Total Chromium (mg/L)	<0.050		<0.050		<0.050	
Colbalt (mg/L)	<0.100		<0.100		<0.100	
Copper (mg/L)		0.035		0.06		0.05
Iron (mg/L)	c0 020	0.554		0.765		0.699
Lead (mg/L) Magnesium (mg/L)	<0.020		<0.020	<u> </u>	<0.020	
Manganese (mg/L)	<0.050	38.56		35.9	-0.050	37.98
Mercury (mg/L)	<0.050		<0.001	0.067	<0.050	
Molybdenum	<0.100		<0.001 <0.100		<0.001 <0.100	
Nickel (mg/L)	<0.050		<0.050		<0.050	PARTIE .
Silver (mg/L)	<0.005			0.011	-0.000	0.033
Titanium	<0.100		<0.100	0.011	<0.100	0.033
Vanadium	I<0.100		<0.100		<0.100	
Zinc (mg/L)		0.075		0.103		0.08
ON SITE ANALYSES						
pH (units) Temperature (*C)		6.8		6.8		6.4
Temperature (C)		18		16		18
GROUP G ANALYTES					***************************************	
ITSS		97				25
TSS		87		86		35
TSS		87		86		35
TSS SAMPLE NUMBERS	GN931032		GN931058		GN931081	35
	CN931034		CN931060		GN931081 CN931083	35
						35
SAMPLE NUMBERS	CN931034 CN931033		CN931060 CN931059		CN931083 CN931082	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L)	CN931034 CN931033 Thursday, 21 Oct 93		CN931060 CN931059 Friday, 22 Oct 93		CN931083 CN931082 Saturday, 23 Oct 93	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene	CN931034 CN931033 Thursday, 21 Oct 93		CN931060 CN931059 Friday, 22 Oct 93 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodiom	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorobethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethavene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyinylether Chloroform	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinvlether Chloroform Chloromethane Chloroform Chloromethane Chlorodibromomethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromoform Bromomethane Carbon tetrachionde Chlorobenzene Chlorotethane 2-Chlorotethyinylether Chloroform Chloromethane Chlorodiromomethane 1.2-Dichlorobenzene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	35
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroform Chloroform Chlorodibromomethane 1.2-Dichlorobenzene 1.2-Dichlorobenzene 1.3-Dichlorobenzene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachionde Chlorobenzene Chlorobenzene Chloroethyvinylether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodfluoromethane Dichlorodfluoromethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931059 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5,14
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromonethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroform Chloroforbenzene 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachionde Chlorobenzene Chlorobenzene Chloroethyvinylether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodfluoromethane Dichlorodfluoromethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromonethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroform Chloroforbenzene 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethave Chlorotethave Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethane 1.1-Dichlorotethene Trans-1.2-Dichloropethene 1.2-Dichloropethene 1.2-Dichloropethene 1.2-Dichloropethene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromonethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethane Chloroethoenethane L2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene Trans-1,2-Dichloroethene Trans-1,2-Dichloropropane Cis-1,3-Dichloropropane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromonethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroform Chloroforbenzene 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,2-Dichloropropene Trans-1,2-Dichloropropene Trans-1,2-Dichloropropene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane 2-Chloroethynivlether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloropropane Cis-1.3-Dichloropropane Cis-1.3-Dichloropropene Trans-1.3-Dichloropropene Trans-1.3-Dichloropropene Ethylbenzene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1.2-Dichlorobenzene 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethene 1.2-Dichloroethene 1.2-Dichloropropane Cis-1.3-Dichloropropane Cis-1.3-Dichloropropene Trans-1.3-Dichloropropene Trans-1.3-Dichloropropene Trans-1.3-Dichloropropene Ethylbenzene Methylene Chloride	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromorethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroform Chloroformethane 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethene 1.3-Dichloropropane 1.3-Dichloropropane 1.3-Dichloropropane 1.3-Dichloropropene 1.3-Dichloropropene 1.3-Dichloropropene 1.3-Dichloropropene 1.3-Dichloropropene 1.3-Dichloropropene 1.3-Dichloropropene 1.3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane 2-Chloroethyrivlether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorotenene 1.1-Dichlorotenene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloropropane Cis-1.3-Dichloropropane Cis-1.3-Dichloroprop	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroformethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethene 1.2-Dichloropropane Cis-1.3-Dichloropropene Trans-1.2-Dichloropropene Trans-1.3-Dichloropropene Trans-1.3-Dichloropropene Trans-1.3-Dichloropropene Trans-1.2-Tetrachloroethane 1.1.2.2-Tetrachloroethane 1.1.2.2-Tetrachloroethane Tetrachloroethylene Toluene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <1	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane 2-Chloroethyrivlether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorotenene 1.1-Dichlorotenene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloropropane Cis-1.3-Dichloropropane Cis-1.3-Dichloroprop	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropane Ethylbenzene 1,2-Dichloropropane Ethylbenzene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <1	5.14
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethyinvlether Chloroform Chloroform Chloroformethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodifluoromethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethene Trans-1.2-Dichloropropene Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1.2-Tetrachloroethane 1,1.2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tot-1,1-Trichloroethane Tichloroethane 1,1.2-Trichloroethane Tichloroethylene Tichloroethune Tichloroethylene Tichloroethune Tichloroethune Tichloroethune Tichloroethune Tichloroethune Tichloroethune	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.14
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromonethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethyvinylether Chloroethorobenzene Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloropropene Trans-1,2-Dichloropropene Trans-1,3-Dichloropropene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <1	5.14
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromonethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroform Chloroforbenzene 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloropropane Cis-1,3-Dichloropropene Trans-1,2-Dichloropropene Ethylbenzene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane Trichloroethylene Toluene Trichloroethylene Trichloroethylene Trichloroethylene Trichlorofluoromethane Trichloroethylene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.09	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.14
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethyvinvlether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodifluoromethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethene 1.2-Dichloropenzene 1.3-Dichloropenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethene Trans-1.3-Dichloropropene Ethylbenzene Methylene Chloride 1.1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tichloroethylene Toluene 1.1,1-Trichloroethane Trichloroethylene Trichlorofluoromethane	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromonethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroform Chloroforbenzene 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloropropane Cis-1,3-Dichloropropene Trans-1,2-Dichloropropene Ethylbenzene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane 1,1-1-Tichloroethane Trichloroethylene Toluene Trichloroethylene Trichloroethylene Trichloroethylene Trichlorofluoromethane Trichloroethylene	CN931034 CN931033 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.45	CN931060 CN931069 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.38	CN931083 CN931082 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	5.1

TABLE DF-1, SITE 6, PRIDE HANGER 7504, MANHOLE #507 Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: Aircraft Maintenance and Sanitary

Contributing Sources: Aircraft Maintenance				
GROUP A ANALYTES	COLLECTION DATE Thursday, 21 Oct 93		COLLECTION DATE	
Chemical Oxygen Demand (mg/L)	Thursday, 21 Oct 93	635	Friday, 22 Oct 93	250
Oil and Grease (mg/L)		19.2		8.8
Total Petroleum Hydrocarbon (mg/L)		1.7		1
Total Phosphorus (mg/L)		18		5.2
GROUP D ANALYTES				
Cyanide (mg/L)		0.013		0.005
COOLD E MANAGEC				
GROUP E ANALYTES Phenols (ug/L)		040		
Prieriois (ug/L)		210		86
GROUP F ANALYTES				
Aluminum		0.779		0.151
Arsenic (mg/L)	<0.010	0.770	<0.010	V. 151
Barium		0.178	<0.100	
Beryllium (mg/L)	<0.010		<0.010	
Cadmium (mg/L)		0.024		0.002
Calcium		62.95		48.02
Total Chromium (mg/L)	<0.050		<0.050	
Cobalt	<0.100	· · · · · · · · · · · · · · · · · · ·	<0.100	
Copper (mg/L)		0.066		0.02
Iron (mg/L)		0.856		0.319
Lead (mg/L)		0.022		0.021
Magnesium (mg/L)		24.33		21.28
Manganese (mg/L) Mercury (mg/L)	<0.001	0.054	<0.050	
Molybdenum	<0.001		<0.001	
Nickel (mg/L)	<0.050		<0.100 <0.050	
Silver (mg/L)	<0.005		<0.050	
Titanium	<0.100		<0.005	
Vanidium	<0.100		<0.100	
Zinc (mg/L)		0.492	0.750	0.092
				0.002
ON SITE ANALYSES				-
pH (units)	Lost Record		Lost Record	
Temperature (°C)	Lost Record		Lost Record	
GROUP G ANALYTES				
TSS		400		348
SAMPLE NUMBERS	GN931017		0.1004040	
SAMPLE NUMBERS	CN931017	~	GN931043 CN931045	
	GN931018		GN931044	
	G14951018		GN931044	
VOLATILE COMPOUNDS (ug/L)	Thursday, 21 Oct 93		Friday, 22 Oct 93	
Benzene	<1.0		<1.0	
Bromodichloromethane	<1.0		<1.0	
Bromoform	<1.0		<1.0	
Bromomethane	<1.0		<1.0	
Carbon tetrachloride	<1.0		<1.0	
Chlorobenzene	<1.0		<1.0	
Chloroethane	<1.0		<1.0	
2-Chloroethyvinylether	<1.0		<1.0	
Chloroform	<1.0			1.07
Chloromethane Chlorodibromomethane	<1.0 <1.0		<1.0	
1,2-Dichlorobenzene	<1.0		<1.0 <1.0	
1,3-Dichlorobenzene	<1.0		<1.0	
		1		
1,4-Dichlorobenzene				17 561
	<1.0	11.26	<1.0	17.56
Dichlorodifluoromethane	<1.0 <1.0	11.26	<1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane		11.26		17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene	<1.0	11.26	<1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene	<1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane	<1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropane Trans-1,3-Dichloropropane Trans-1,3-Dichloropropane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropane Ethylbenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,1-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene 1rans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane 1,12-Dicthloroethane Tetrachloroethylene Tolluene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Z-Tetrachloroethane Etrachloroethylene Toluene Toluene Toluene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 17ans-1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloropropene Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethylene Tolluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloropropane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropene 1,3-Dichloropropene 1,3-Dichloropropene 1,3-Dichloropropene 1,3-Dichloropropene 1,1,2-2-Tetrachloroethane 1,1,2-Tinchloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1-Trichloroethane 1,1-Dichloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichloroethylene Trichloroethylene Trichlorofluoromethane Trichlorofluoromethane Vinyl Chloride Vinyl Chloride	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
1,4-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropene 1,2-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Vinyl Chloride m-Xylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56
Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-2-Tetrachloroethane Tetrachloroethylene Tolluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichlorofluoromethane Viryl Chloride XyleneXylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	11.26	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	17.56

TABLE DG-1, SITE 7, AGE SUPPORT, MANHOLE #135 Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: Aircraft Ground Support Equipment

Contributing Sources: Aircraft Ground Supp	ort Equipment		,	
	COLLECTION DATE		COLLECTION DATE	
GROUP A ANALYTES	Thursday, 21 Oct 93		Friday,22 Oct 93	
Chemical Oxygen Demand (mg/L)		350	Noted Greasy 600	
Oil and Grease (mg/L)		2.7		1
Total Petroleum, Hydrocarbon (mg/L)	<1			1.4
Total Phosphorus (mg/L)		8.8		12
GROUP D ANALYTES				
Cyanide				
		0.02		0.016
GROUP E ANALYTES				
Phenois (ug/L)		158	-	98
				30
GROUP F ANALYTES				
Aluminum Arsenic (mg/L)	10000	0.636		0.437
Barium	<0.010		<0.010	
Beryllium (mg/L)	<0.010	0.31	C0.010	0.117
Cadmium (mg/L)	1-0.0.0	0.008	<0.010	0.005
Calcium		59.54		56.09
Total Chromium (mg/L)	<0.050		<0.050	55.55
Cobatt	<0.100		<0.100	
Copper (mg/L) Iron (mg/L)		0.155		0.133
Lead (mg/L)		1.72		0.817
Magnesium (mg/L)		24.08	<0.020	22 50
Manganese (mg/L)		0.056		23.58 0.05
Mercury (mg/L)	<0.100		<0.100	J.55
Nickel (mg/L)	<0.050		<0.050	
Silver (mg/L) Titanium	<0.005		<0.005	
Vanadium	<0.100		<0.100	
Zinc (mg/L)	<0.100	0.213	<0.100	
		0.213		0.214
ON SITE ANALYSES				
pH (units)		7.6		8
Temperature (*C)		16		18
GROUP G ANALYTES				
TSS		48		
		40		291
	1			
SAMPLE NUMBERS	GN931020		GN931046 Verbal from AL/SA	
SAMPLE NUMBERS	CN931022		GN931046 Verbal from AL/SA CN931048	
SAMPLE NUMBERS				
	CN931022 GN931021		CN931048 GN931047	
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene	CN931022 GN931021 Thursday, 21 Oct 93		CN931048 GN931047 Friday, 22 Oct 93	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane	CN931022 GN931021		CN931048 GN931047 Friday, 22 Oct 93 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0		CN931048 GN931047 Friday, 22 Oct 93	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromotombane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0		CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0		CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931048 GN931047 Friday. 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931048 GN931047 Friday. 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloromethane Chloroethane Chloroethane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyriylether Chloroform Chloromethane Chloroform Chloromethane 1.2-Dichloroberzene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromothane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethyvinylether Chloroform Chloromethane Chloromethane Chloroformomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodfluoromethane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodfluoromethane 1,1-Dichlorobenzene 1,2-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromotorm Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroform Chloromethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodffluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorothane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethorom Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroptene 1,2-Dichloroptenee	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday. 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromotorm Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane Chloroethane Chloroform Chloromethane Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodifluoromethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethene Trans-1.2-Dichloroethene Trans-1.2-Dichloroethene Trans-1.2-Dichloroptopane Cis-1.3-Dichloropropane Cis-1.3-Dichloropropane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane Chloroform Chloromethane Chlorofibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane Chlorothane Chloroform Chloromethane Chloroformomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropane Cisthybenzene Methylene Chloride	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chlorotentynivjether Chloroform Chloromethane Chlorofibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroptopane Cis-1,3-Dichloropropane Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chlorde	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyminylether Chlorodiforom Chlorodiforomomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,1-Dichlorothane 1,2-Dichloropropene Ternan-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane Chloroform Chloromethane Chloroformomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane 1,1-Z-Tetrachloroethane 1,1-Z-Tetrachloroethane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chlorotethyrinylether Chloroform Chloromethane Chlorofibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,2-Dichloropropene Trans-1,3-Dichloropropene Ethytbenzene Methylene Chloride 1,1,2-Z-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Tirchloroethane	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyrinylether Chlorodibromomethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloropenzene 1,3-Dichloropenzene Ethylbenzene Ethylbenzene Ethylbenzene Ethylbenzene Ethylbenzene Methylene Chloride 1,1,2-Z-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Toluene Toluene Toluene Toluene Toluene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorosthane 2-Chlorotenyinylether Chloroform Chloromethane Chlorofibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorosthane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,3-Dichloropropane Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-2-ietrachloroethane 1,1,1-Trichloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,1-Trichloroethane Tichloroethylene Trichloroethylene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyrinylether Chlorodibromomethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloropenzene Ethylbenzene Ethylbenzene Ethylbenzene Ethylbenzene Ethylbenzene Ethylbenzene Methylene Chloride 1,1,2-2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Toluene 1,1,1-Trichloroethane Tichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethone Trichloroethylene Trichloroethone Trichloroethone Trichloroethone Trichloroethone Trichloroethone Trichloroethone	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane Chloroform Chloromethane Chloroformomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorotenane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichloropropane Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachlorotethane 1,1,1-Trichlorotethane 1,1,1-Trichlorotethane 1,1,1-Trichlorotethane 1,1,1-Trichlorotethane 1,1,1-Trichlorotethane Trichlorothylene Tichlorothylene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorosthane 2-Chlorotethyvinylether Chloroform Chloromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodfluoromethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chlorde 1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichloroethylene	CN931022 GN931021 Thursday, 21 Oct 93 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichoromethane Bromonethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chlorodibromomethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene	CN931022 GN931021 Thursday, 21 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	7.83	CN931048 GN931047 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	21.73



Contributing Sources: Flightline Sanitary System	II ROWS OU LO 110	1
	COLLECTION DATE	COLLECTION DATE
GROUP A ANALYTES	Friday, 22 Oct 93	Saturday, 23 Oct 93
Ammonia	Not Requested	52
Chemical Oxygen Demand (mg/L)	710	
Oil and Grease (mg/L)	32.8	
Total Petroleum Hydrocarbon (mg/L)	5.1	
Total Phosphorus (mg/L)		18
GROUP D ANALYTES	Not Requested	0.000
Cyanide (mg/L)	Not Requested	0.008
GROUP E ANALYTES	57	60
Phenois (ug/L)	57	- 60
	·	
GROUP F ANALYTES	25	2.454
Aluminum	0.012	3.454 0.037
Arsenic (mg/L)	0.012	
Barium	<0.010	0.704 <0.010
Beryllium (mg/L)	0.033	
Cadmium (mg/L)	81	
Calcium	0.11	96.13 0.07
Total Chromium (mg/L)		
Cobalt	<0.100	<0.100
Copper (mg/L)	0.32	
Iron (mg/L)	6	
Lead (mg/L)	0.076	
Magnesium (mg/L)	25	27.06
Manganese (mg/L)	25	
Mercury (mg/L)	<0.001	<0.001
Molybdenum	<0.100	<0.100
Nickel (mg/L)		<0.050
Silver (mg/L)	<0.005	<0.005
Titanium	<0.100	<0.100
Vanadium	<0.100	<0.100
Zinc (mg/L)	1.1	1.923
ON SITE ANALYSES		
pH (units)	7.5	
Temperature (*C)	14	15
GROUP G ANALYTES		
TSS	1242	(Chunky and Soapy) 1920
CAMBI C ALIMPEDO		GN931075
SAMPLE NUMBERS	GN931014	
SATURE INJURE RA	CN931016	CN931077
DAMPLE NUMBERS	CN931016	
	CN931016 GN931015	CN931077 GN931076
VOLATILE COMPOUNDS (ug/L)	CN931016 GN931015 Friday, 22 Oct 93	CN931077 GN931076 Saturday, 23 Oct 93
VOLATILE COMPOUNDS (ug/L) Benzene	CN931016 GN931015 Friday, 22 Oct 93	CN931077 GN931076 Saturday, 23 Oct 93 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane	CN931016 GN931015 Friday, 22 Oct 93 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodom	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobethane	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodionm Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyinylether Chloroform	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethyvinylether Chloroform Chloroform	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
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VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethyvinylether Chloroform Chloroform Chloroform Chloroformethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropenzene Elixhloropropane Cis-1,3-Dichloropropene Elixhloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethane	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyniylether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethene Trans-1,2-Dichloroethene Trans-1,2-Dichloroptene Eist-1,3-Dichloroptenee Eist-1,3-Dichloroptenee Eist-1,3-Dichloroptenee Eist-1,3-Dichloroptenee Eist-1,3-Dichloroptenee Eist-1,3-Dichloroptopene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane Toluene 1,1,1-Trichloroethane	CN931016	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene Trans-1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropane Citylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon letrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethyvinylether Chloroethyvinylether Chloroethoromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Toluene Toluene Toluene Toluene Tichloroethane 1,1,1-Tirchloroethane Toluene Toluene Tirchloroethane	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2Chloroethyvinylether Chloroform Chloroform Chloromethane 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloropenzene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Toluene 1,1,1-Trichloroethane Tinchloroethane Tinchloroethane Tinchloroethane Tinchloroethane Tinchloroethane Tinchloroethane Tinchloroethane Tinchloroethane Tinchloroethane	CN931016	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachlonde Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene Dibromochloromethane 1,3-Dichlorobenzene 1,3-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,2-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichloroethane	CN931016	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tirichloroethane	CN931016	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromooform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethyvinylether Chloroform Chloromethane 1.2-Dichlorobenzene Dibromochloromethane 1.2-Dichlorobenzene Dibromochloromethane 1.1-Dichlorobenzene Dichlorodifloromethane 1.1-Dichlorobenzene Trans-1,2-Dichlorobenzene Trans-1,2-Dichlorobenzene Trans-1,2-Dichloropene Trans-1,3-Dichloropene Trans-1,3-Dichloropene Trans-1,3-Dichloropene Ethylbenzene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Toluene Toluene Trichloroethane Ti,1-Trichloroethane Ti,1-Trichloroethane Ti,1-Trichloroethane Ti,1-Trichloroethane Tinchloroethene	CN931016 GN931015 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromooform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethyvinylether Chloroform Chloromethane 1.2-Dichlorobenzene Dibromochloromethane 1.2-Dichlorobenzene Dibromochloromethane 1.1-Dichlorobenzene Dichlorodifloromethane 1.1-Dichlorobenzene Trans-1,2-Dichlorobenzene Trans-1,2-Dichlorobenzene Trans-1,2-Dichloropene Trans-1,3-Dichloropene Trans-1,3-Dichloropene Trans-1,3-Dichloropene Ethylbenzene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Toluene Toluene Trichloroethane Ti,1-Trichloroethane Ti,1-Trichloroethane Ti,1-Trichloroethane Ti,1-Trichloroethane Tinchloroethene	CN931016	CN931077 GN931076 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0

TABLE DI-1, SITE 9, MIDDLE BASE, MANHOLE #213 Base Survey: ELLSWORTH AIR FORCE BASE

Survey Dates: 18-29 October 1993
ces: BX. Commisary, Chow Hall, Service

	COLLECTION DATE		ary, Chow Hall, Se	COLLECTION DATE	COLLECTION DATE	
GROUP A ANALYTES	Tuesday, 26 Oct 93		Wednesday, 27 Oct 93	Wed, 27 Oct 93, Duplicate	Thursday, 28 Oct 93	
Ammonia	7,2000.00	20				21.
Chemical Oxygen Demand (mg/L)		503				42
Oil and Grease (mg/L)		90	31.		8	13.
Total Petroleum Hydrocarbon (mg/L)		2.4	1.		8 < 1.0	
Total Phosphorus (mg/L)		6.8	14.	5 60	4	4.6
GROUP D ANALYTES	1.005			1		
Cyanide	<.005		<.005	<.005	<.005	
GROUP E ANALYTES						
Phenois (ug/L)	· · · · · · · · · · · · · · · · · · ·	64	13	-	0 -100	
			13	1	8 <10	
GROUP F ANALYTES						
Aluminum		2	1.	1	5	
Arsenic (mg/L)	< 0.010		< 0.010	<0.010	< 0.010	
Barium	< 0.100		< 0.100	<0.100	10.00	0.46
Beryllium (mg/L)	< 0.010		< 0.010	< 0.010	< 0.010	
Cadmium (mg/L)			< 0.001	< 0.001	< 0.001	
Calcium		53			9	50
Total Chromium (mg/L)	<0.050		< 0.050	< 0.050	< 0.050	
Cobalt	<0.100		< 0.100	<0.100	< 0.100	
Copper (mg/L)		0.064				0.079
Iron (mg/L)	10.000	0.35				0.36
Lead (mg/L) Magnesium (mg/L)	< 0.020		< 0.020	<0.020	< 0.020	
Magnesium (mg/L) Manganese (mg/L)	40.050	23	23		2	22
Mercury (mg/L)	< 0.050		<0.050	<0.050	< 0.050	
Nickel (mg/L)	<0.001	0.05	< 0.001	<0.001	< 0.001	
Silver (mg/L)	<0.005	0.05	< 0.005	< 0.005		0.05
Titanium	<0.100		< 0.100	< 0.100	< 0.005	0.18
Vanadium	< 0.100		< 0.100	<0.100	< 0.100	0.18
Zinc (mg/L)		0.081	0.069			0.065
				1		0.003
ON SITE ANALYSES						
pH (units)	-	6.4		Not Requested	Not Recorded	
Temperature (°C)		20	16	Not Requested	Not Recorded	
CDOUD C ANALYTEC						
GROUP G ANALYTES Residue, (total)						
Residue, nonfilterable		731	455			681
TSS (mg/L)		115 156				110
	*	, 30	56	Not Requested	Not Performed	
					 	
SAMPLE NUMBERS	GN932053		GN932083	GN932103	GN932118	
	CN932055	, i	CN932085	CN932107	CN932120	
	GN932054		GN932084	GN932105	GN932119	
		- 1				
VOLATILE COMPOUNDS (ug/L)	Tuesday, 26 Oct 93		Wednesday, 27 Oct 93	Duplicate	Thursday, 28 Oct 93	
Benzene	<1.0		<1.0	<1.0	<1.0	
Benzene Bromodichloromethane	<1.0 <1.0		<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	
Benzene Bromodichloromethane Bromoform	<1.0 <1.0 <1.0		<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	<1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromoform Bromomethane	<1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	
Benzene Bromodichloromethane Bromoform	<1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichloromethane Bromoform Bromomethane Carbon tetrachloride	<1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichloromethane Biomodorm Biomomethane Carbon tetrachloride Chlorobenzene Chlorothane 2-Chlorothyvinylether	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichioromethane Biomodichioromethane Biomomethane Carbon tetrachloride Chlorobenzene Chlorothane 2-Chloroethane Chlorothane Chlorothane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichloromethane Biomodichm Biomomethane Carbon tetrachloride Chlorobenzene Chlorothane 2-Chloroethyvinylether Chloroform Chloroform	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichloromethane Biomodorm Biomomethane Carbon tetrachloride Chlorobenzene Chlorotenane 2-Chlorotenane Chlorotenane Chlorotenane Chlorotenane Chlorotenane Chlorotenane Chlorotenane Chlorotenane Chlorotenane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichioromethane Biomodichioromethane Biomomethane Carbon tetrachloride Chlorobenzene Chlorothane 2-Chloroethane Chlorothymylether Chlorothomethane Chlorodibromomethane 1,2-Dichlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichloromethane Biomodichloromethane Biomomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethoromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichloiomethane Biomodichloiomethane Biomomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroften Chloroften Chloroften Chloroften Chloroften Chloroftene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichioromethane Bromodichioromethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorothane 2-Chlorothane Chlorothymylether Chlorothoromethane Chlorothoromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichloromethane Biomodichloromethane Biomomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane 2-Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichioromethane Biomodichioromethane Biomomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroform Chloromomethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodishioromethane Bromodishioromethane Bromomethane Carbon tetrashioride Chlorobenzene Chloroethane 2-Chloroethane 2-Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dishiorobenzene 1,3-Dishiorobenzene 1,4-Dishioroethane 1,1-Dishioroethane 1,1-Dishioroethane 1,1-Dishioroethane 1,1-Dishioroethane 1,1-Dishioroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichicomethane Bromodichicomethane Bromomethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 0-chlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodishioromethane Bromodishioromethane Bromomethane Carbon tetrashioride Chlorobenzene Chloroethane 2-Chloroethane 2-Chloroethane 2-Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dishiorobenzene 1,3-Dishiorobenzene 1,3-Dishiorobenzene 1,4-Dishioroethane 1,1-Dishioroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichioromethane Biomodichioromethane Biomodichioromethane Biomomethane Carbon tetrachoride Chlorobenzene Chlorobenzene Chlorothyvinylether Chlorotioromethane Chlorothyvinylether Chlorotioromethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorothane 1,1-Dichlorothane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichioromethane Bromodichioromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dichloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodishioromethane Bromodishioromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane 2-Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,3-Dishlorobenzene 1,3-Dishlorobenzene 1,1-Dishloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichioromethane Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichioromethane Bromodichioromethane Bromomethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichloroethane L1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropene Erans-1,2-Dichloropene Erans-1,3-Dichloropene Erans-1,3	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorobenzene Chlorotethane 2-Chlorotethane 2-Chlorotethane 2-Chlorotethane Chlorotethane Chlorodibromomethane 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorotenzene 1,1-Dichlorotethane 1,2-Dichloropropene Ettylbenzene Methylene Chloride 1,1,2,2-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Dichlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane 1,1,2-Z-Tetrachlorotethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
Benzene Biomodichioromethane Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrechloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,4-Dichlorobenzene 1,4-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Titchloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.11
Benzene Bromodichioromethane Bromodichioromethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothomomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorothane Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichloropene Cas-1,3-Dichloropene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.11
Benzene Bromodichioromethane Bromodichioromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane 2-Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,3-Dichlorobenzene 1,3-Dichloroethane 1,1-Dichloroethane 1,1-Tichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.11
Benzene Bromodichioromethane Bromodichioromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloropene Elizabili Gromomethane 1,2-Dichloropene Elizabili Gromomethane 1,2-Dichloroethane 1,2-Dichloropene Elizabili Gromomethane 1,2-Dichloropene Elizabili Gromomethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.11
Benzene Bromodichioromethane Bromodichioromethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothomomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorothane Dichlorothane Chlorothomomethane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane Ca-1,3-Dichloropropene C	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.11
Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane 2-Chloroethane Chloroethane Chloroethane Chloroethane 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Tichloroethane 1,2-Tichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.11
Benzene Bromodichioromethane Bromodichioromethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothomomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorothane Dichlorothane Chlorothomomethane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane Ca-1,3-Dichloropropene C	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	3.6	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	4.87 1.11

TABLE DJ-1, SITE 10, HOSPITAL and BX COMPLEX, MANHOLE #251 Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993

Contributing Sources: BX, Commisary, Chow Hall, Service Stations, SP, & VOQ

Contributing	g Sources: BX, Commisary, C	now Hall, Service Stations	
CDOUG A ANIALYTEC	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE
GROUP A ANALYTES	Tuesday, 26 Oct 93	Wednesday, 27 Oct 93	Thursday, 28 Oct 93
Chemical Oxygen Demand (mg/L)	176		
Oil and Grease (mg/L)	5.1		
Total Petroleum Hydrocarbon (mg/L)	3.1		11.8
Total Phosphorus (mg/L)	2.3		
		3.0	7.2
GROUP D ANALYTES			
Cyanide	<.005	<.005	<.005
			1.000
GROUP E ANALYTES			İ
Phenois (ug/L)	21	18	40

GROUP F ANALYTES			
Aluminum	<0.100	0.11	0.14
Arsenic (mg/L)	< 0.010	< 0.010	< 0.010
Barium	<0.100	< 0.100	0.46
Beryllium (mg/L)	<0.010	< 0.010	< 0.010
Cadmium (mg/L)		< 0.001	< 0.001
Calcium	27	71	37
Total Chromium (mg/L)	<0.050	< 0.050	< 0.050
Cobatt	<0.100	< 0.100	<0.100
Copper (mg/L)	< 0.050	< 0.020	0.076
lion (mg/L) Lead (mg/L)	<0.020 0.46	0.69	0.52
Magnesium (mg/L)		< 0.020	<0.20
Manganese (mg/L)	< 0.050	17	16
Mercury (mg/L)	< 0.001	<0.050 <0.001	<0.050
Molybdenum	<0.100	<0.100	<0.050
Nickel (mg/L)	< 0.050	<0.050	<0.10
Silver (mg/L)	< 0.005	0.035	<0.050
Titanium	<0.100	<0.100	0.019
Vanadium	<0.100	< 0.100	<0.100 <0.100
Zinc (mg/L)	0.078	0.073	
	0.070	0.073	0.052
ON SITE ANALYSES			
ON SITE ANALYSES pH (units)	6.2	6.4	
	6.2	6.4	
pH (units) Temperature (°C)		6.4 20	
pH (units) Temperature (°C) GROUP G ANALYTES	18		
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total)			349
pH (units) Tempetature (°C) GROUP G ANALYTES Residue (total) Residue, nonfriterable	398 50	20	349 8
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total)	398	766 40	
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS	398 50 91	766 40 65	Not Requested 8
pH (units) Tempetature (°C) GROUP G ANALYTES Residue (total) Residue, nonfriterable	398 50 91 GN932056	766 40 65 GN932086	8 Not Requested GN932121
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS	398 50 91 GN932056 CN932058	766 40 65 GN832086 CN832088	8 Not Requested GN932121 CN932123
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS	398 50 91 GN932056	766 40 65 GN932086	8 Not Requested GN932121
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS SAMPLE NUMBERS	398 50 91 GN932056 CN932058 CN932057	766 40 65 GN932086 CN932088 CN932087	8 Not Requested GN932121 CN932123 CN932122
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfifterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L)	398 50 51 GN932056 CN932058 CN932057 Tuesday, 26 Oct 93	766 40 65 GN932086 CN932088 CN932087	8 Not Requested GN932121 CN932123 CN932122 Thursdey, 28 Oct 93
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS SAMPLE NUMBERS	18 398 50 91 GN932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0	766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfriterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene	18 398 50 50 91 GN932056 CN932058 CN932057 Tuesdey, 26 Oct 93 <1.0	766 40 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfriterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichkoromethane Bromodom Bromomethane	18 398 50 91 GN932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0	766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane	398 398 50 91 GN932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0	766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfifterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene	398 398 50 91 GN932056 CN932058 CN932057 Tuesdey, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0	766 40 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonliterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodom Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene	18 398 50 91 GN932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	20 766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Biomodichkoromethane Biomodom Biomomethane Carbon tetrachkoride Chlorobenzene Chlorobenzene Chlorothane 2-Chlorotethane	18 398 50 50 91 GN932056 CN932058 CN932057 Tuesdey, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	20 766 40 65 GN932086 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfriterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichkoromethane Bromodichkoromethane Bromomethane Carbon tetrachkoride Chkoroberzene Chkoroberzene Chkoroberthane 2-Chkoroberthane	18 398 50 50 6N932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	20 766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932172 Thursdey, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonliterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug.L) Benzene Bromodichloromethane Bromodom Bromomethane Carbon tetrachloride Chlorobenzene Chlorotethane 2-Chlorotethyvinylether Chloroterm Chlorotethane	18 398 50 50 91 GN932056 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	766 40 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichkoromethane Bromodichkoromethane Bromodichkoromethane Chlorobenzene Chlorotethane 2-Chlorotethyvinylether Chlorotorm	398 398 50 50 91 CN932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0	20 766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursdey, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiiterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodich(promethane Bromodich(promethane) Bromomethane Carbon tetrachloride Chlorobersene Chloroethyvinylether Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Chlorodibromomethane Chlorodibromomethane Chlorodibromomethane Chlorobersene	18 398 50 6N932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	20 766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfitterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorotethane 2-Chlorotethyvinylether Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethane Chlorotethopenzene Chlorotethopenzene Chlorotethopenzene Chlorotethopenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene	18 398 50 50 91 GN932056 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	20 766 40 65 6N932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
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pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfriterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorothane Chlorothane Chlorothane Chlorothopolaromethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Dichlorothopolarone Dichlorothopolarone 1,4-Dichlorobenzene Dichlorothopolarone Dichlorothopolarone Dichlorothopolarone	398 398 50 6N932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	20 766 40 65 GN932086 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
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pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfitierable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorothane 2-Chlorothyvinylether Chlorothorom Chlorothoromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane	398 500 91	20 766 40 40 65 6N932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfriterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichkoromethane Bromomethane Carbon tetrachkoride Chkoroberzene Chkoroberzene Chlorosthane 2-Chlorosthyrinylethet Chkorothoromethane 1,2-Dichkoroberzene 1,3-Dichkoroberzene 1,1-Dichkorothane	398 398 50 50 91 GN932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <1.0 <1	766 40 65 6N932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932123 CN932172 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
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pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfitierable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorothane 2-Chlorothyvinylether Chlorothorom Chlorothoromethane 1,2-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane	398 500	20 766 40 40 65 6N932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.1.0 <1.0 <	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfriterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorotethane 2-Chlorothane 2-Chlorothane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorothane Dichlorothane 1,1-Dichlorothane	398 398 50 50 6N932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <1.0 <1	766 40 65 6N932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfilierable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Biomodichloromethane Bromelom Bromelom Bromelom Carbon tetrachloride Chloroethane 2-Chloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropene Ge-1,3-Dichloropropene Ge-1,3-Dichloropropene Ethylbenzene Methylene Chloride	398 500 91	766 40 40 65 6N932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
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pH (units) Temperature (°C) GROUP G ANALYTES Residue, nonfriterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorotethyvinylether Chlorotethyvinylether Chlorotethoromethane 1,3-Dichlorobenzene 1,1-Dichlorotethane 1,2-Dichlorotethane Cs-1,3-Dichloropropene Cs-1,3-Dichloropropene Ctatylene Chloride 1,1,2,2-Tetrachlorotethane fettaschlorotethylene Methylene Chloride Tetrachlorotethylene Tetrachlorotethylene	398 398 50 50 6N932056 CN932058 CN932057 Tuesday, 26 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <1.0 <1	766 40 65 6N932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfifierable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothyvinylether Chlorothyvinylether Chlorothorobenzene 1,3-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorothane 1,2-Dichlorothane	398 500 91	766 40 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfiterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodom Bromodom Bromodom Bromodom Chlorobenzene Chloroethane 2-Chloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene	398	766 40 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <1.1.0 <1.0 <	8 Not Requested GN932121 CN932123 CN932123 CN932122 Thursdey, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) Temperature (°C) GROUP G ANALYTES Residue, nonfiiterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodishipromethane Bromodishipromethane Bromodishipromethane Carbon tetrachloride Chloroberzene Chloroberzene Chloroberzene Chloroberzene Chloroberzene Chloroberzene Chloroberzene Chloroberzene 1,3-Dichloroberzene 1,1-Dichloroberzene 1,1-Dichloroberzene 1,1-Dichlorothane Cis-1,3-Dichloropropene Cithylbenzene Methylene Chloride 1,1,2-Tetrachlorothane Tetrachlorothylene Tetrachlorothylene Louene 1,1,1-Trichlorothane 1,1,1-Trichlorothane Louene 1,1,1-Trichlorothane	18 398 500 510	766 40 65 6N932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyrinylethet Chloroffilterable 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropene Cart, 3-Dichloropene Cart, 3-Dichloropene Cart, 3-Dichloropene Cart, 3-Dichloropene Cart, 3-Dichloropene Cart, 3-Dichloropene Ethylbenzene Methylene Chloride Ittachloroethane Ittachloroethylene Ioluene I,1,1-Tichloroethane	398 500 91	766 766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.1.0 <1.0 <1	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
pH (units) Temperature (°C) GROUP G ANALYTES Residue (total) Residue, nonfifierable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorothane 2-Chlorothyrinylether Chlorothorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichloropropene Trans-1,3-Dichloropropene 398 398 500 91	766 40 65 GN932086 CN932088 CN932087 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	8 Not Requested GN932121 CN932123 CN932122 Thursday, 28 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	

TABLE DK-1, SITE 11, EAST BASE HOUSING, MANHOLE #310 Base Survey: ELLSWORTH AIR FORCE BASE

Survey Dates: 18-29 October 1993 Contributing Sources: Domestic Sanitary

	Co	entributing Source	es: Domestic Sa	anitary		
	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE
GROUP A ANALYTES	Saturday, 23 Oct 93	Sunday, 24 Oct 93	Monday, 25 Oct 93	Monday, 25 Oct 93, Duplical	Tuesday, 26 Oct 93	Wednesday, 27 Oct 93
Ammonia	14	1	Not Requested			
Chemical Oxygen Demand (mg/L)	260		298			†
Oil and Grease (mg/L)	27.2	12.2	11.8	27.2	35.2	11.2
Total Petroleum Hydrocarbon (mg/L)	6.4	<1.0	1.3	1.9	. 1	<1
Total Phosphorus (mg/L)	3.2		2.8			
GROUP E ANALYTES	- /-			l		
Phenois (ug/L)	68		43			
GROUP F ANALYTES						
Aluminum	0.996		1,9			
Arsenic (mg/L)	<0.010		<0.010			1
Barium	<0.100		<0.100			
Beryllium (mg/L)	<0.010		<0.010			
Cadmium (mg/L)	<0.001		<0.001		<u> </u>	
Calcium	57.96		59			
Total Chromium (mg/L)	<0.050		<0.050			
Cobalt	<0.100		<0.100			
Copper (mg/L)	0.024		0.028			
Iron (mg/L)	0.318		0.46			
Lead (mg/L)	<0.020		<0.020			<u> </u>
Magnesium (mg/L)	28.68		27		ļ	
Manganese (mg/L)	0,174		0.12			
Mercury (mg/L)	<0.001		<0.001			
Molybdenum	<0.100		<0.100		1	1
Nickel (mg/L)	<0.050		<0.050			
Silver (mg/L)	<0.005		<0.005			1
Titanium	<0.100		<0.100			1
Vanadium	<0.100		<0.100			<u> </u>
Zinc (mg/L)	<0.050		0.053		ļ	
ON SITE ANALYSES						
pH (units)	6.4				6.4	
Temperature (°C)	18	20	18	19	17	18
200.000.000.0000						
GROUP G ANANLYTES						
Residue (total) Residue, nonfilterable	+			597	537	
TSS	205	·		65	70	45
			112			ļ
			112			
		GN932034		GN032025	GN932026	CN022021
SAMPLE NUMBERS	GN931090		GN932013	GN932025	GN932028	GN932031
	GN931090 CN931092		GN932013 CN932015	GN932025	GN932028	GN932031
	GN931090		GN932013	GN932025	GN932028	GN932031
SAMPLE NUMBERS	GN931090 CN931092 CN931092		GN932013 CN932015 CN932014	GN932025	GN932028	GN932031
SAMPLE NUMBERS VOLATILE COMPOUND'S (ug/L)	GN931090 CN931092 CN931092 Saturday, 23 Oct 93		GN932013 CN932015 CN932014 Monday, 25 Oct 93	GN932025	GN932026	GN932031
SAMPLE NUMBERS	GN931090 CN931092 CN931092	3-40-	GN932013 CN932015 CN932014	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (upf.) Benzene Bromodichioromethane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0		GN932013 CN932015 CN932014 Monday, 25 Oct 93 <1.0	GN932025	GN\$32026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene	GN931090 CN931092 CN931092 Saturday, 23 Oct 93		GN932013 CN932015 CN932014 Monday, 25 Oct 93	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichizormethane Bromodorm	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0		GN932013 CN932015 CN932014 Monday, 25 Oct 93 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichiane Bromomethane	GNS31090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0		GN932013 CN932015 CN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN932028	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodentem Bromomethane Carbon tetrachlonde Chlorobenzene Chlorobenzene	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 CN932015 CN932015 CN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodrom Bromomethane Carbon tetrachlonde Carbon tetrachlonde	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 CN932015 CN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichiorremethane Bromodenterm Bromodenterm Bromodenterm Carbon tetrachlonde Chicobenzene Chicobenzene Chicobenzene Chicobenzene	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932015 GN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN832028	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodorm Bromomethane Bromodorm Chlorobenzene Chlorobenzene Chlorobenzene 2-Chloroethynnylether Chloroform Chloroform Chloroform	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN832013 CN832015 CN832014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromotem Bromotem Bromotem Carbon lefrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chloromethane Chloromethane Chloromethane Chloromethane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932015 CN932015 CN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <	GN932025	GN932028	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichioromethane Bromomethane Carbon tetrachlonde Chlorobenzene Chlorobenzene Chlorotentynnytether Chloroform Chlorotemthane Chlorotemthane Chlorotemthane Chlorotemthane Chlorotemthane Chlorotemthane Chlorotemthane Chlorotemthane Chlorotemthane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932015 GN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (upf.) Benzene Bermodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorotenane Chicrotenane Chicrotenthane Chicrotenthane Chicrotenthane Chicrotenthane 1.2-Chicrotenthane 1.2-Chicrotenthane 1.2-Chicrotenthane 1.3-Chichorobenzene	GNS31090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932015 CN932015 CN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachlonde Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenthane 1,2-Clichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 CN932015 CN932015 CN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bermodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene	GNS31090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932015 CN932015 CN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichioromethane Bromodenem Bromodenem Bromodenem Bromodenem Carbon tetrachlonde Chicrobenzene Chicrobenzene Chicrobenzene Chicromethane 2-Chicroethynnytether Chioroform Chicromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene Dichlorodfluoromethane Dichlorodfluoromethane Dichlorodfluoromethane Dichlorodfluoromethane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 CN852015 CN852015 CN8922014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachlonde Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorobenzene	GNS31090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN832013 GN832015 GN832014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichiorremethane Bromodichiorremethane Bromodichiorremethane Carbon tetrachlonde Chiorobenzene Chiorobenzene Chiorotentynnytether Chioromethane 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodifluoromethane 1.1-Dichlorotentane 1.1-Dichlorotentane 1.1-Dichlorotentane 1.1-Dichlorotentane 1.1-Dichlorotentane 1.1-Dichlorotentane 1.1-Dichlorotentane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932015 GN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN832026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Betzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachlonde Chlorobenzene Chlorobenzene Chlorobenzene Chlorotethymnylether Chlorotethymnylether Chlorotemane Chlorotemane 1.3-Dichlorobenzene 1.3-Dichlorobenzene Dichlorodfluoromethane 1.1-Dichlorotethane 1.2-Dichlorotethane 1.2-Dichlorotehane 1.2-Dichlorotehane 1.2-Dichlorotehane 1.1-Dichlorotehane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 CN932015 CN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN832026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (upf.) Benzene Bromodichioromethane Bromodichioromethane Bromodentom Bromomethane Carbon letrachlorde Chlorobenzene Chlorobenzene Chlorobenzene Chloromethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,1-Dichlorothane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932015 GN932015 GN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN832026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodintormethane Bromodintormethane Bromodintormethane Bromodintormethane Carbon tetrachlonde Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene La-Dichlorobenzene 1,3-Dichlorobenzene Dichlorodfluoromethane 1,3-Dichlorobenzene Dichlorodfluoromethane 1,3-Dichlorobenzene Trans-1,2-Dichlorobenzene Trans-1,2-Dichlorobenzene Trans-1,2-Dichlorobenzene Trans-1,2-Dichlorobenzene Trans-1,2-Dichlorobenzene	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932015 GN932015 GN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (upf.) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Dichlorobenzene 1,2-Dichloropropene	GNS31090 GNS31092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932015 CN932015 CN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN832026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichioromethane Bromodentom Bromodichioromethane Carbon tetrachlonde Chiorobenzene Chiorobenzene Chioromethane 2-Chioromethane 2-Chioromethane 1,2-Dichloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene Dichlorodfluoromethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,3-Dichlorotethane 1,3-Dichlorotethane 1-3-Dichlorotethane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932015 GN932015 GN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (upf.) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	GNS31090 GNS31092 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetra-chonde Chicrobenzene Chicrobenzene Chicrobenzene Chicrobenzene Chicrobenzene Chicrobenzene Chicrobenzene 1.2-Dichioromethane 1.2-Dichiorobenzene 1.4-Dichiorobenzene 1.4-Dichiorobenzene 1.1-Dichiorobenzene 1.2-Dichiorobenzene 1.3-Dichiorobenzene 1.3-Dichiorobenzene 1.3-Dichiorobenzene 1.3-Dichiorobenzene Methylene Methy	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932015 GN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachlonde Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,1-Dichlorobenzene Emst-1,3-Dichloropropene Emst-1,3-Dichloropropene Enst-1,3-Dichloropropene Enstylbenzene Methylene Chloride 1,1,2,2-Tetrachlorobethane 1,1,2-Tetrachlorobethane 1,1-Z-Tetrachlorobethane 1,1-Z-Tetrachlorobethane	GNS31090 CNS31092 CNS31092 CNS31092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachlonde Chiorobenzene Chiorobenzene Chiorotentynnytether Chioromethane 1,2-Dichloromethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethene Trans-1,2-Dichloropropene Entras-1,3-Dichloropropene Entras-1,3-Dichloropropene Entras-1,2-Dichloropropene Entras-1,2-Dichloropropene Entras-1,2-Dichloropropene Entras-1,2-Dichloropropene Entras-1,2-Dichloropropene Entras-1-Dichloropropene	GN931090 CN931092 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932013 GN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN832026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodintormethane Bromodintormethane Bromodintormethane Bromodintormethane Bromodintormethane Bromodintormethane Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene La-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene Trans-1,3-Dichlorobenzene Trans-1,3-Dichloropene Trans-1,3-Dichloropene Trans-1,3-Dichloropene Est-1,3-Dichloropene Est-1,3-Dichloropene Methylene Methylene Methylene Methylene Methylene Methylene Methylene Methylene Methylene Toluene Tolu	GNS31090 CN931092 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932015 GN932015 GN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN832026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromotern Bromodichioromethane Bromotern Bromotern Bromotern Bromotern Bromotern Bromotern Bromotern Carbon letrachlorde Chlorobenzene Chlorobenzene Chloromethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichlorotethane 1,2-Dichloropropene Ernas-1,3-Dichloropropene Ernas-1,3-Dichloropropene Ethytbenzene Methytene Chlonde 1,1,2-Tratchloroethane 1,1,2-Tratchloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN832026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Garbon tetrachlonde Chlorobenzene Chlorobenzene Chloromethane 2-Chloromethane 2-Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,2-Dichloromethane 1,1-Dichlorobentene 1,2-Dichloropenzene Trans-1,2-Dichloropene Trans-1,3-Dichloropene Trans-1,3-Dichloropene Ethylbenzene Methylene Methylene Methylene Chlonde Methylene Chlonde 1,12-Tetrachloroethane 1,12-Tetrachloroethane Tetrachloroethylene Tetrachloroethylene Toluene Tetrachloroethane 1,1,1-Tinchloroethane 1,1,1-Tinchloroethane 1,1,1-Tinchloroethane 1,1,1-Tinchloroethane Trans-1-Tinchloroethane 1,1,1-Tinchloroethane Transloroethylene	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 CN932015 CN932015 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichioromethane Bromotem Bromotem Bromotem Bromotem Bromotem Bromotem Bromotem Bromotem Bromotem Bromotem Bromotem Carbon letrachloride Chlorobenzene Chlorobenzene Chlorobenzene 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorobenzene Enthoroditromotem 1.1-Dichlorobenzene 1.1-Dichlorobenzene Enthoroditromotem 1.1-Dichlorobenzene Enthoroditromotem 1.1-Dichlorobenzene Enthorobenzene Intrincipropiene Enthorobenzene Intrincipropiene Enthorobenzene Intrincipropiene Trincipropiene Trincipropiene Trincipropiene Trincipropiene Trincipropiene Trincipropiene Trincipropiene	GNS31090 CN931092 CN931092 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		GN932013 GN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN832026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon letra-chonde Chlorobenzene Chloromethane 2-Chloroethynnytether Chloromethane 1-2-Dichloromethane 1-3-Dichlorobenzene 1-3-Dichlorobenzene 1-4-Dichlorobenzene 1-1-Dichlorotentane 1-1-Dichlorotentane 1-1-Dichlorotentane 1-1-Dichlorotentane 1-2-Dichlorotentene Trans-1-2-Dichlorotenene Trans-1-3-Dichloropenene Methylene	GN931090 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 CN852015 CN852014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (upf.) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Z-Dichloropropene Ethytbanzene Methytene Methytene Ethytbanzene Methytene 1,1,2-Trichlorobenzene 1,1,2-Trichlorobenzene 1,1,2-Trichlorobenzene 1,1,2-Trichlorobenzene 1,1,2-Trichlorobenzene Toluene 1,1,2-Trichlorobenzene 1,2-Trichlorobenzene 1,2-Trichlorobenzene 1,2-Trichlorobenzene 1,2-Trichlorobenzene 1,2-Trich	GNS31090 GNS31092 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN932026	GN332031
SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichiorremethane Bromodichiorremethane Bromodichiorremethane Bromodichiorremethane Carbon tetrachlonde Chiorobenzene Chiorobenzene Chiorobenzene Chioromethane 12-Dichloromethane 13-Dichloromethane 13-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichlorotentane 1,2-Tirchlorotentane 1,2-Tirchlorotethane 1,2-Tirchlorotethane 1,2-Tirchlorotethane Totuene 1,1,1-Tirchlorotethane Totuene Trachlorotethane	GN931090 GN931092 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932013 GN932014 Monday, 25 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0	GN932025	GN932026	GN932031
SAMPLE NUMBERS VOLATILE COMPOUNDS (upf.) Benzene Bromodichioromethane Bromodichioromethane Bromodichioromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Z-Dichloropropene Ethytbanzene Methytene Methytene Ethytbanzene Methytene 1,1,2-Trichlorobenzene 1,1,2-Trichlorobenzene 1,1,2-Trichlorobenzene 1,1,2-Trichlorobenzene 1,1,2-Trichlorobenzene Toluene 1,1,2-Trichlorobenzene 1,2-Trichlorobenzene 1,2-Trichlorobenzene 1,2-Trichlorobenzene 1,2-Trichlorobenzene 1,2-Trich	GNS31090 GNS31092 CN931092 CN931092 Saturday, 23 Oct 93 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0		GN932013 GN932014 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932025	GN832026	GN332031

TABLE DL-1, SITE 12, NORTH WEST BASE HOUSING, MANHOLE #400 Base Survey: ELLSWORTH AIR FORCE BASE

Survey Dates: 18-29 October 1993
Contributing Sources: Domestic Sanitary

COLLECTION DATE	Contributing Sources: Domestic Sanitary								
	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE					
LOGIUTURY, ZO UCT 95	Tuesday, 24 Oct 93	Wednesday, 25 Aug 93	Thursday, 26 Aug 93	Friday, 27 Oct 93					
17.2		Not Requested							
490		451							
3.5		36.8		13.4					
1.2		1.4							
6.8		6							
60		64							
<u></u>			·						
2718		4							
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				· · · · · · · · · · · · · · · · · · ·					
	·								
<0.050									
<0.001		<0.001							
<0.100		<0.100							
<0.050		<0.050							
<0.005		<0.005							
<0.100		<0.100							
<0.100		<0.100							
0.06		0.059	· · · · · · · · · · · · · · · · · · ·						
7	6.8	6.8	6.4	6.8					
				21					
		19.							
			-						
			651	578					
				125					
474	-	440		125					
1/1		116							
	C1/000005	011000017	CHICAGO	<u> </u>					
	GN932035		GN932029	GN932032					
GN931094		GN932018							
		W-dd 25 A - 02							
<1.0		<1.0							
<1.0		<1.0							
<1.0									
		<1.0							
<1.0		<1.0							
<1.0 3.07		<1.0 1.84							
		<1.0	·						
3.07		<1.0 1.84	·						
3.07 <1.0		<1.0 1.84 <1.0	·						
3.07 <1.0 <1.0		<1.0 1.84 <1.0 <1.0							
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3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	•						
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	•						
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
3.07 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 1.84 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0							
	<0.001 <0.100 <0.050 <0.005 <0.100 <0.100	 <0.010 <0.105 <0.010 <0.001 51.39 <0.050 <0.100 0.143 0.132 <0.020 <0.050 <0.001 <0.001 <0.001 <0.005 <0.000 <0.050 <0.100 <0.100<!--</td--><td><0.010</td> <0.010	<0.010	CO.100 CO.100 CO.100 CO.100 CO.100 CO.1010 CO.0010					

TABLE DM-1, SITE 13, NORTH EAST BASE HOUSING, MANHOLE UNMARKED Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993

Contributir	ng Sources: Do	mestic Sanitary
OTION DATE	COLL COTION DATE	COLL COTION DATE

	COLLECTION DATE		COLLECTION DATE	COLLECTION DATE	COLLECTION DATE
GROUP A ANALYTES			Monday, 25 Oct 93	Tuesday, 26 Oct 93	Wednesday, 27 Oct 93
Ammonia	21.6		Not Requested		
Chemical Oxygen Demand (mg/L)	440		588		
Oil and Grease (mg/L)	19.2		11.3	16.6	14.6
Total Petroleum Hydrocarbon (mg/L)	1.2			1	1
Total Phosphorus (mg/L)	5.2		7.5		
GROUP E ANALYTES					<u> </u>
Phenois (ug/L)	57		37		
000110 5 11111 1050					
GROUP F ANALYTES	2.312		4.7		
Aluminum	<0.010		<0.010		
Arsenic (mg/L) Barium	0.102		0.18		
Beryllium (mg/L)	<0.010		<0.010		
Cadmium (mg/L)	<0.001		<0.001		
Calcium	49.25		64		
Total Chromium (mg/L)	<0.050		<0.010		
Cobalt	<0.100		<0.100		
Copper (mg/L)	0.132		0.26		
Iron (mg/L)	0.343		0.9		
Lead (mg/L)	<0.020		<0.020		
Magnesium (mg/L)	21.19		23	1	
Manganese (mg/L)	<0.050		<0.050		
Mercury (mg/L)	<0.001		<0.001		
Molybdenum	<0.100		<0.100		
Nickel (mg/L)	<0.050		<0.050		
Silver (mg/L)	<0.005		<0.005		
Titanium	<0.100		<0.100		
Vanadium	<0.100		<0.100		
Zinc (mg/L)	0.065		0.24		
ON SITE ANALYSES					
pH (units)					
Temperature (°C)					
				ļ	
GROUP G ANALYTES					
Residue (total)				542	
Residue (total) Residue, nonfilterable			400	542 90	
Residue (total)	232		486		
Residue (total) Residue, nonfilterable TSS				90	95
Residue (total) Residue, nonfilterable	GN931096	GN932036	GN932021		
Residue (total) Residue, nonfilterable TSS	GN931096 CN931098	GN932036	GN932021 CN932023	90	95
Residue (total) Residue, nonfilterable TSS	GN931096	GN932036	GN932021	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS	GN931096 CN931098 CN931097	GN932036	GN932021 CN932023 GN932022	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L)	GN931096 CN931098 CN931097 Saturday, 23 Oct 93	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93	GN932036	GN932021 CN932023 GN932022	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodiom	GN931096 CN931098 CN931097 Saturday, 23 Oct 93	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Manday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyrinylether Chloroform	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethyvinylether Chloroform Chloroform Chloroform Chloroform	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Manday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethane 2-Chloroethane Chloroform Chloromethane Chloromethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethyvinylether Chloromethane Chloromethane Chlorodirom Chloromethane Chlorodiromethane Chlorodiromethane Chlorodiromomethane Chlorodiromomethane Chlorodiromomethane L-2-Dichlorobenzene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform Chloroform 1,2-Dichlorobenzene 1,3-Dichlorobenzene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothane 2-Chloroethyniylether Chloromethane Chloromethane Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chloroethyvinylether Chloroform Chloromethane Chlorodibromomethane L-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichloroffluoromethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroform Chloroformethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorodentane 1,1-Dichlorodentane 1,1-Dichlorodentane 1,1-Dichloroethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothoromethane 2-Chlorothymylether Chlorofform Chloromethane Chlorothoromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorotethane 1,2-Dichlorotethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2Chloroethyvinylether Chloroform Chloromethane Chlorobenzene 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroformethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.3-Dichloroethane 1.3-Dichloroethane 1.3-Dichloroethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chloroformethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2Chloroethyvinylether Chloroform Chloroethane 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloropropane Cis-1.3-Dichloropropene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethyvinylether Chloroform Chlorodibromomethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloropropane Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Ethylbenzene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropenpene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylenzene Methylene Chloride Methylene Chloride Methylene Chloride	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2Chloroethyniylether Chloroform Chloromethane 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloropropene Trans-1.2-Dichloropropene Trans-1.3-Dichloropropene Trans-1.3-Dichloropropene Ethylbenzene Methylene Chloride 1.1.2.2-Tetrachloroethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropenpene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylenzene Methylene Chloride Methylene Chloride Methylene Chloride	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloroform Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Indicatoroethane GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95	
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorotethane 2Chloroethyninylether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethene 1.2-Dichloroethene 1.3-Dichloroethene 1.3-Dichloropenzene 1.1-Dichloroethene 1.1-Dichloroethene 1.1-Dichloroethene 1.1-Dichloroethene 1.1-Dichloropenene Ethylbenzene Methylene Chloride Methylene Chloride 1.1.2.2-Tetrachloroethane 1.1.2.1-Tetrachloroethane Ethylbenzene Methylene Chloride 1.1.2.1-Tetrachloroethane Tetrachloroethylene Toluene 1,1.1-Trichloroethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroethane Chloroform Chloroform Chloroform Chloroforethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene Toluene Toluene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothane 2-Chlorothyrinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorobethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,2-Dichlorothane 1,3-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,2-Dichlorothane 1,2-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachlorothane Tetrachlorothylene Totalene	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2Chloroethyinylether Chloroform Chloronethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,1-Tirichloroethane 1,1-Tirichloroethane 1,1-Tirichloroethane 1,1-Tirichloroethane 1,1-Tirichloroethane 1,1-Tirichloroethane Tirichloroethylene Tirichloroethylene Tirichloroethylene Tirichloroethylene Tirichloroethylene Tirichloroethylene Tirichloroethylene Tirichloroethylene Tirichloroethane Tirichloroethylene Tirichloroethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chlorobenzene Chloroethane 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroptopene Einstellene 1.2-Dichloroptopene Einstellene 1.3-Dichloroptopene Einstellene 1.3-Dichloroptopene Einstellene 1.4-Dichloroptopene Einstellene 1.5-Dichloroptopene Einstellene GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95	
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane 1,1,1-Trichloroethylene Totane 1,1,1-Trichloroethylene Totanelene 1,1,1-Trichloroethylene Totaloroethylene Totaloroethylene Totaloroethylene Totichloroethylene Tichloroethylene Tichloroethane	GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95
Residue (total) Residue, nonfilterable TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chlorobenzene Chloroethane 1.2-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroptopene Einstellene 1.2-Dichloroptopene Einstellene 1.3-Dichloroptopene Einstellene 1.3-Dichloroptopene Einstellene 1.4-Dichloroptopene Einstellene 1.5-Dichloroptopene Einstellene GN931096 CN931098 CN931097 Saturday, 23 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GN932036	GN932021 CN932023 GN932022 Monday, 25 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	90 GN932030	95	

TABLE DN-1, SITE 14, INDUSTRIAL LINE INFLUENT TO WWTF Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: Industrial Line After Oil/Water Separator

- Contain	COLLECTION DATE	COLLECTION DATE	COLLECTION DATE
GROUP A ANALYTES	Friday, 22 Oct 93	Saturday, 23 Oct 93	Wednesday, 27 Oct 93
Ammonia	<.2	<.2	1,50,5000,12. 00,00
Chemical Oxygen Demand (mg/L)	98		429
Oil and Grease (mg/L)	7.0	67.2	188.8
Total Petroleum Hydrocarbon (mg/L)	4.3	21.6	
Total Phosphorus (mg/L)	.35	0.43	
GROUP D ANALYTES			
Cyanide (mg/L)	<.005	<.005	<.005
GROUP E ANALYTES			
Phenois (ug/L)	27	10	27
GROUP F ANALYTES			
Aluminum		<0.100	0.28
Arsenic (mg/L)	<0.010	<0.010	<0.010
Barium		<0.100	0.11
Beryllium (mg/L)	<0.010	<0.010	<0.010
Cadmium (mg/L)	57.02	<0.001 53.72	0.017
Calcium	<0.050	<0.050	<0.050 55
Total Chromium (mg/L)	<0.100	<0.100	<0.100
Cobalt		<0.020	0.036
Copper (mg/L)	2.07		1.6
iron (mg/L) Lead (mg/L)	0.02		
Magnesium (mg/L)	22.55		
Manganese (mg/L)	0.14		0.093
Mercury (mg/L)	<0.001		<0.001
Molybdenum	<0.100	<0.100	<0.100
Nickel (mg/L)	<0.050	<0.050	<0.050
Silver (mg/L)	<0.005	<0.005	<0.005
Titanium	<0.100	<0.100	<0.100
Vanadium	<0.100	<0.100	<0.100
Zinc		<0.050	0.054
ON SITE ANALYSES			
pH (units)	6.5	6	6.2
Temperature (°C)	15		
GROUP G ANALYTES			
Residue (total)	Not Requested	Not Requested	488
Residue, filterable	Not Requested	Not Requested	335
Residue, nonfilterable	Not Requested	Not Requested	10
Residue, total volatile	Not Requested	Not Requested	13
	Not Requested 16	Not Requested	13 29
Residue, total volatile TSS	16	Not Requested 33	29
Residue, total volatile	16 GN931007	Not Requested 33 GN931071	29 GN932092
Residue, total volatile TSS	16 GN931007 CN931009	Not Requested 33 GN931071 CN931073	29 GN932092 CN932094
Residue, total volatile TSS	16 GN931007	Not Requested 33 GN931071	29 GN932092
Residue, total volatile TSS SAMPLE NUMBERS	GN931007 CN931009 GN931008	Not Requested 33 GN931071 CN931073 GN931072	29 GN932092 CN932094 GN932093
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L)	GN931007 CN931009 GN931008 Friday, 22 Oct 93	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene	16 GN931007 CN931009 GN931008 Friday, 22 Oct 93	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane	GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 <1.0 3.87
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichoromethane	GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0	Not Requested 33	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane	GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0 1.15	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0 1.15 <1.0 <1.0 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 <1.0 <1.0 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromoorm Bromomethane Carbon tetrachlonde Chlorobenzene	GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0 1.15 <1.0 <1.0 <1.0 <1.0 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothane	16 GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethavinylether	GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0 1.15 <1.0 <1.0 <1.0 <1.0 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon telrachloride Chlorobenzene Chloropethane 2-Chloroethyvinylether Chloroform	16 GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethane 2-Chloroethavinylether	16 GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorothane 2-Chlorothane 2-Chloroform Chloroform Chloroform Chloromethane Chlorodibromomethane	16 GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chicroethyane 2-Chloroethyvinylether Chloromethane Chloromethane Chloromethane Chlorodibromomethane Chlorodibromomethane Chlorodibromomethane 1,2-Dichlorobenzene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chlorodibromomethane Chlorodibromomethane	16	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorobenzene Dichlorodifluoromethane	16	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotentyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorodifluoromethane 1,1-Dichlorotethane 1,1-Dichloroethane	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachlonde Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane	16	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoethane Bromoethane Carbon tetrachloride Chloroethane 2-Chloroethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromoom Bromomethane Carbon telrachlonide Chlorobenzene Chloropethane 2-Chloroethyvinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichloroethane	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachlonde Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethoromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene Trans-1,2-Dichloroethene Trans-1,2-Dichloropropene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorotethane 1,2-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane 1,1-Dichlorotethane 1,2-Dichlorotethane	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorosethane 2-Chlorosthane 2-Chlorothyrivjether Chloromethane Chlorodibromomethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorotentane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroptopane Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3.87 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethoromethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene Trans-1,2-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride Methylene Chloride Methylene Chloride Methylene Chloride	16 GN931007 CN931009 GN931008 Friday, 22 Oct 93 <1.0	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachlonde Chlorobenzene Chlorogethane 2-Chloroethane Chloromethane Chloroform Chloromethane Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloroptopene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride Methylene Chloride 1,1,2,2-Tetrachloroethane	Section	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotentynivjether Chlorothomethane 1.2-Dichlorotentynivjether Chlorodibromomethane 1.3-Dichlorobenzene Dichlorothomethane 1.1-Dichlorotenzene 1.1-Dichlorotentane 1.1-Dichlorotethane 1.2-Dichloropropene Ethylbenzene Methylene Chloride 1,1.2-Tetrachlorotethane Tetrachlorotethylene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinytether Chlorodibromomethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorotenae 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroptenee Trans-1,2-Dichloroethene 1,2-Dichloroptenee Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethylene Totouene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chlorotethane 2-Chlorotethyrinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichloropethane Etnytbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethane 2-Chloroethyvinylether Chloroethomethane Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropane Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethylene Totuene 1,1,1-Trichloroethane Totuchene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromomethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethyvinytether Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropenzene Dichlordibromemethane 1,2-Dichloropenzene Dichlordibropenzene Dichlordibropenzene Trans-1,2-Dichloropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Tertachloroethane Tetrachloroethylene Dioluene 1,1,1-Trichloroethane 1,1-2-Tertachloroethylene Toluene 1,1,1-Trichloroethylene 1,1,2-Trichloroethylene 1,1,2-Trichloroethylene 1,1,2-Trichloroethylene Trichloroethylene Trichloroethylene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon telrachloride Chlorobenzene Chlorobenzene Chlorotethane 2-Chlorotethyrinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichlorotethane 1,1-Dichloroperpene Trans-1,2-Dichloroperpene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tertachlorotethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tichloroethylene Tinchloroethylene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinylether Chloroethane 1.2-Dichloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichlorotenane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloropropane Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane 1,1,2-Tichloroethane 1,1,1-Tichloroethane 1,1,1-Tichloroethane 1,1,1-Tichloroethane 1,1,1-Tichloroethane 1,1,1-Tichloroethane 1,1,1-Tichloroethane Tichloroethylene Tichloroethylene Tichloroethylene Tichlorofluoromethane Tichlorofluoromethane Tichlorofluoromethane Tichlorofluoromethane Tichlorofluoromethane Vinyl Chloride	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromomethane Bromomethane Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroethyvinytether Chlorodibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropenzene Dichlordibromomethane 1,2-Dichloropenzene Trans-1,2-Dichloropenzene Trans-1,2-Dichloropenzene Trans-1,2-Dichloropenzene Trans-1,2-Dichloropenzene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Dichloropropene Trans-1,3-Tichloropene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (uq/L) Benzene Bromodichloromethane Bromodichloromethane Bromoomm Bromomethane Carbon tetrachlonide Chlorobenzene Chlorogethane 2-Chlorothyrinylether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorobenzene 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichlorothane 1,1-Dichloropethane 1,1-Z-Tichlorothane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tichlorofluoromethane Tichlorofluoromethane Tichlorofluoromethane Tichlorofluoromethane Vinyl Chloride m-Xylene 0-Xylene	Section Sect	Not Requested 33 GN931071 CN931073 GN931072 Saturday, 23 Oct 93 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93 3,87 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0 <1,0
Residue, total volatile TSS SAMPLE NUMBERS VOLATILE COMPOUNDS (ug/L) Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane 2-Chloroethyvinytether Chlorodibromomethane Chlorodibromomethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.1-Dichlorobenzene 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloropropane Trans-1.2-Dichloropropene Trans-1.3-Dichloropropene Trans-1.3-Dichloropropene Trans-1.3-Tichloroethane 1.1-1.2-Tetrachloroethane 1.1-1.2-Tetrachloroethane 1.1-1.7-Tichloroethane 1.1-1.7-Tichloroethane 1.1-1.7-Tichloroethane 1.1-1.7-Tichloroethane Tetrachloroethylene Toluene 1.1.1-Tichloroethane 1.1.2-Tichloroethane 1.1.2-Tichloroethane 1.1.2-Tichloroethane 1.1.2-Tichloroethylene Trichloroethylene	Section	Not Requested 33 33 34 35 35 35 35 35	29 GN932092 CN932094 GN932093 Wednesday, 27 Oct 93

TABLE DN-2, SITE 14, INDUSTRIAL LINE INFLUENT TO WWTF Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993

Contributing Sources: Industrial L	COLLECTION DATE	COLLECTION DATE
Total Toxic Organics 624&625 (ug/L) Volatile Compounds	Saturday, 23 Oct 93	Wed, 27 Oct 93
Benzene	<5.0	<5.0
Bromodichloromethane	<5.0	<5.0
Bromoform	<5.0	<5.0
Bromomethane Carbon tetrachloride	<10.0 <5.0	<10.0 <5.0
Chlorobenzene	<5.0	<5.0
Chloroethane	<10.0	<10.0
2-Chloroethyvinylether	<10.0	<10.0
Chloroform Chloromethane	<5.0 <10.0	<5.0 <10.0
Dibromochloromethane	<5.0	<5.0
1,2-Dichlorobenzene	<5.0	<5.0
1,3-Dichlorobenzene	<5.0	<5.0 -
1,4-Dichlorobenzene	<5.0 <5.0	<5.0 <5.0
1,2-Dichloroethane	<5.0	<5.0
1,1-Dichloroethene	<5.0	<5.0
cis-1,2-Dichloroethene	<5.0	<5.0
Trans-1,2-Dichloroethene 1,2-Dichloropropane	<5.0 <5.0	<5.0 <5.0
Cis-1,3-Dichloropropene	<5.0	<5.0
Trans-1,3-Dichloropropene	<5.0	<5.0
Ethylbenzene		8 <5.0
Methylene Chloride	<5.0	<5.0
1,1,2,2-Tetrachloroethane Tetrachloroethene	<5.0 <5.0	<5.0 <5.0
Toluene	75.0	36 <5.0
1,1,1-Trichloroethane	<5.0	<5.0
1,1,2-Trichloroethane	<5.0	<5.0
Trichloroethylene	<5.0	<5.0
Trichlorofluoromethane Vinyl Chloride	<10.0 <10.0	<10.0 <10.0
Fings Gradies		
Base Neutral Compounds (ug/L)		
Acenapthene	<10.0	<10.0
Acenaphthylene Anthracene	<10.0 <10.0	<10.0 <10.0
Benzo(a)anthracene	<10.0	<10.0
Benzo(b)fluoranthene	<10.0	<10.0
Benzo(a)pyrene	<10.0 <10.0	<10.0 <10.0
Benzo(g,h,i,)perylene Bis(2-chloroethyl)ether	<10.0	<10.0
Bis(2-chloroethoxy)methane	<10.0	<10.0
Bis(2-chloroisopropal)ether	<10.0	<10.0
Bis(2-ethylhexyl)phthalate 4-Bromophenyl-phenlether	<10.0	29 <10.0
Butylbenzylphthalate	<10.0	<10.0
2-Chloronaphthalene	<10.0	<10.0
4-Chlorophenyl-phenlether	<10.0	<10.0
Chrysene Dibenzoa,hanthracene	<10.0 <10.0	<10.0 <10.0
Di-n-butlphthalate	<10.0	<10.0
1,2-Dichlorobenzene	<10.0	<10.0
1,3-Dichlorobenzene	<10.0	<10.0
1,4-Dichlorobenzene 3,3'-Dichlorobenzidine	<10.0 <20.0	<10.0 <20.0
Diethylphthalate	<10.0	<10.0
Dimethyl phthalate	<10.0	<10.0
2,4-Dinitrotoluene	<10.0	<10.0
2,6-Dinitrotoluene Di-n-octylphthalate	<10.0 <10.0	<10.0 <10.0
Di-n-occylphthalate Fluoranthene	<10.0	<10.0
Fluorene	<10.0	<10.0
Hexachlorobenzene	<10.0	<10.0
Hexachlorobutadiene	<10.0 <10.0	<10.0 <10.0
Hexachlorocyclopentadiene Hexachloroethane	<10.0	<10.0
Indeno(1,2,3-cd)pyrene	<10.0	<10.0
Isophorone	<10.0	<10.0
Naphthalene Nitrobassassassassassassassassassassassassass	<10.0 <10.0	<10.0 <10.0
Nitrobenzene N-Nitroso dimethyl amine	<10.0	<10.0
N-Nitroso-di-n-propylamine	<10.0	<10.0
N-Nitrosodiphenylamine	<10.0	<10.0
Phenanthrene	<10.0 <10.0	<10.0
Pyrene 1,2,4-Trichlorobenzene	<10.0	<10.0
Acid Compounds (ug/L)	-100	400
P-Chloro-m-cresol 2-Chorophenol	<10.0 <10.0	<10.0 <10.0
2.4-Dichorophenol	<10.0	<10.0
2.4-Dichorophenoi	<10.0	<10.0
2,4-Dimethylphenol		<50.0
2,4-Dimethylphenol 2,4-Dinitrophenol	<50.0	
2,4-Dimethylphenol 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	<50.0 <50.0	<50.0
2,4-Dimethylphenol 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 2-Nitrophenol	<50.0 <50.0 <10.0	<50.0 <10.0
2,4-Dimethylphenol 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	<50.0 <50.0	<50.0 <10.0 <50.0 <50.0
2,4-Dimethylphenol 2,4-Dinitrophenol 4,6-Dinitro-Z-methylphenol 2-Nitrophenol 4-Nitrophenol Pentachlorophenol Phenol	<50.0 <50.0 <10.0 <50.0 <50.0 <10.0	<50.0 <10.0 <50.0 <50.0 <10.0
2.4-Dimethylphenol 2.4-Dinitrophenol 4.6-Dinitro-2-methylphenol 2-Nitrophenol 4-Nitrophenol Pentachlorophenol	<50.0 <50.0 <10.0 <50.0 <50.0	<50.0 <10.0 <50.0 <50.0
2.4-Dimethylphenol 2.4-Dinitrophenol 4.6-Dinitro-2-methylphenol 2-Nitrophenol 4-Nitrophenol Pentachlorophenol Phenol 2,4,6-Trichlorophenol	<50.0 <50.0 <10.0 <50.0 <50.0 <10.0 <10.0	<50.0 <10.0 <50.0 <50.0 <10.0 <10.0
2,4-Dimethylphenol 2,4-Dinitrophenol 6,6-Dinitro-2-methylphenol 2-Nitrophenol -Nitrophenol Pentachlorophenol Phenol	<50.0 <50.0 <10.0 <50.0 <50.0 <10.0	<50.0 <10.0 <50.0 <50.0 <10.0

TABLE DN-3, SITE 14, INDUSTRIAL LINE INFLUENT TO WWTF

Base Survey: ELLSWORTH AIR FORCE BASE

Survey Dates: 18-29 October 1993
Contributing Sources: Industrial Line After Oil/Water Separator

	COLLECTION DATE	COLLECTION DATE
PCB's & PESTICIDES (ug/L)	Saturday, 23 Oct 93	Tuesday, 26 Oct 93
Alpha-BHC	<0.05	< 0.05
Beta-BHC	< 0.05	< 0.05
Delta-BHC	< 0.05	<0.05
Lindane	<0.05	<0.05
Heptachlor	< 0.05	<0.05
Aldrin	< 0.05	<0.05
Heptachlor Epoxide	< 0.05	< 0.05
Endosulfan I	<0.05	<0.05
Dieldrin	<0.10	<0.10
4,4' DDE	<0.10	<0.10
Endrin	<0.10	<0.10
Endosulfan II	<0.10	< 0.10
4,4' DDD	<0.10	<0.10
Endosulfan Sulfate	< 0.10	<0.10
4,4-DDT	< 0.10	< 0.10
Endrin Ketone	NA NA	NA NA
Methoxychlor	< 0.50	< 0.50
Chlordane	<1.00	<1.00
Alpha-Chlorodane	NA NA	NA .
Gamma-Chlorodane	NA NA	NA
Toxaphene	<1.00	<1.00
Endrin Aldehyde	<0.1	<0.10
Arochlor 1016	< 0.50	< 0.50
Arochlor 1221	< 0.50	< 0.50
Arochior 1232	< 0.50	< 0.50
Arochior 1242	<0.50	< 0.50
Arochior 1248	< 0.50	< 0.50
Arochior 1254	<1.00	<1.00
Arochlor 1260	<1.00	<1.00
Sample numbers	CN931074	CN932098
NA = Not Analyzed		

TABLE DO-1, SITE 15, FLIGHTLINE INDUSTRIAL, MANHOLE #51

Base Survey: ELLSWORTH AIR FORCE BASE

Survey Dates: 18-29 October 1993
Contributing Sources: Flightline Industrial System Rows 60 to 110

	tributing Sources: Fli	3	COLLECTION DATE	COLL	ECTION DATE	COLLECTION DATE
GROUP A ANALYTES	Thursday, 21 Oct 93		Friday, 22 Oct 93		day, 23 Oct 93	Wednesday, 27 Oct 93
Ammonia	NR		NR	381010	0.74	
	NR NR		NR	NR	0.74	<.1
litrate Jitrite	NR NR		NR	NR		<.02
	INN	63		70	1090	87
Chemical Oxygen Demand (mg/L)					le Grease 212.8	63.0
Oil and Grease (mg/L)		15.6 9.8	39		160	54.
Total Petroleum Hydrocarbon (mg/L)		1.7	1.9		1.7	
Total Phosphorus (mg/L)		1./	+.3	,,,	1.7	
ODOLOG ANALYTEC						
GROUP D ANALYTES	<.005		* DOE	< .00	e	<.005
Cyanide	Z .005		<.005	₹.00	3	2.003
				_		
GROUP E ANALYTES						
Phenois (ug/L)		27	<10	<27		4
rhenois (ug/L)		21	Z 10	127		7
GROUP F ANALYTES				+		
	<0.100		< 0.100		0.138	0.1-
Aluminum	<0.010		< 0.010	< 0.0		< 0.010
Arsenic (mg/L)		0.116	<0.100	1 0.0		<0.100
Barium	<0.010	0.116	< 0.010	< 0.0		<0.010
Beryllium (mg/L)		0.005				0.0
Cadmium (mg/L)		60.43	46.5	0.0	44.65	5
Calcium Total Character (1)		<u>⊍∪.43</u>				< 0.050
Total Chromium (mg/L)	< 0.050		< 0.050	< 0.0		< 0.100
Cobalt	< 0.100	0.036	< 0.100		0.176	0.0
Copper (mg/L)		0.038	0.03			
lion (mg/L)		0.375	0.3		0.64	0.6
Lead (mg/L)	< 0.020		< 0.020	< 0.0		<0.020
Magnesium (mg/L)		21.88	19.7		19.02	2
Manganese (mg/L)		0.11			0.053	
Mercury (mg/L)	< 0.001		< 0.001	< 0.0	001	< 0.001
Molybdenum	< 0.100		< 0.100	< 0.1		< 0.100
Nickel (mg/L)	< 0.050		< 0.050	< 0.0		< 0.050
Silver (mg/L)	< 0.005		< 0.005	< 0.0		< 0.005
Titanium	< 0.100		< 0.100	< 0.1		< 0.100
Vanadium	< 0.100		< 0.100	< 0.1		< 0.100
Zinc (mg/L)	< 0.050		< 0.050	1 20.1	0.106	
Ellio (IIIq/c)	1		10.000		3.750	
ON SITE ANALYSES						
pH (units)		6.3		.2	6.8	6.
Temperature (°C)		14		15	17	
remperature (-C)		- 14		13		- · · · · · · · · · · · · · · · · · · ·
GROUP G ANALYTES				-		
						45
Residue (total)				+		
Rosidue, fikerable						32
Residue, nonfikerable				_		13
Residue, total volatile						12
ISS		27		14	27	28
SAMPLE NUMBERS	GN931023		GN931049		31078	GN932095
	CN931025		CN931051		31080	CN932097
	GN931024		GN931050	GN93	31079	GN932096
						<u> </u>
VOLATILE COMPOUNDS (ug/L)	Thuisday, 21 Oct 93		Friday, 22 Oct 93	Satur	day, 23 Oct 93	Wednesday, 27 Oct 93
Benzene	<1.0		< 1.0	< 10		24.7
Bromodichloromethane		1.62	<1.0	<10		<1.0
Biomoform	<1.0		<1.0	<10		<1.0
Biomomethane	<1.0		<1.0	<10		<1.0
Carbon tetrachloride	<1.0		<1.0	<10		<1.0
Chlorobenzene	<1.0		<1.0	<10		<1.0
Chloroethane	<1.0		<1.0	< 10		<1.0
2-Chloroethyvinylether	<1.0		<1.0	< 10		<1.0
Chloroform	1	1.41	<1.0	<10		<1.0
Chloromethane	<1.0		<1.0	<10		<1.0
Chlorodibromomethane	17	2 22	<1.0	<10		<1.0
1,2-Dichlorobenzene	<1.0	_ 2.20	<1.0	< 10		<1.0
1,3-Dichlorobenzene	<1.0		<1.0	<10		<1.0
1,4-Dichlorobenzene	<1.0	-	<1.0	<10		<1.0
						< 1.0
Dichlorodifluoromethane	<1.0		<1.0	<10		
1,1-Dichloroethane	<1.0		<1.0	<10		<1.0
1,2-Dichloroethane	<1.0		<1.0	<10		<1.0
1_1-Dichloroethene	<1.0		<1.0	<10		<1.0
Trans-1,2-Dichloroethene	<1.0		<1.0	< 10		<1.0
1,2-Dichloropropane	<1.0		<1.0	< 10		<1.0
Cis-1,3-Dichloropropene	<1.0		<1.0	< 10		<1.0
Trans-1,3-Dichloropropene	<1.0		<1.0	<10		<1.0
Ethylbenzene	<1.0		<1.0	<10		19
Methylene Chloride	<1.0		<1.0	<10		<1.0
1,1,2,2-Tetrachloroethane	<1.0		<1.0	<10		<1.0
Tetrachloroethylene		19.18		59 < 10		11.4
Toluene	<1.0		<1.0	<10		94.2
1,1,1-Trichloroethane		1.89	<1.0	<10		<1.0
1,1,2-Trichloroethane	<1.0		<1.0	<10		<1.0
Trichloroethylene	<1.0		<1.0	<10		<1.0
Trichlorofluoromethane	<1.0		<1.0	<10		<1.0
Vinyl Chloride	<1.0		<1.0	<10		<1.0
						•
m-Xylene	<1.0	• • •	<1.0 <1.0	<10		51.5
	,	1.37	15. 1 17	<10		51.3
o-Xylene p-Xylene	<1.0		<1.0	<10		99.9

TABLE DP-1, SITE 16, AUDIO VISUAL AND GRAPHICS Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: C.E. Administration and Audio Visual

	collection DATE	O.L. Aul	ninistration and Audio V	COLLECTION DATE	
GROUP A ANALYTES	Tuesday, 26 Oct 93		Tuesday, 26 Oct 93 Equip Blk	Wednesday, 27 Oct 93	
Ammonia			<0.2	0.4	29.6 46
Kjeldahl Nitrogen (total)		0.24		0.4	1.3
Nitrate Nitrite	<.02	0.24	<.02	<.02	
Chemical Oxygen Demand (mg/L)		59		14	235
Oil and Grease (mg/L)		2.7	<1.0	0.6	6.4 1.3
Total Petroleum Hydrocarbon (mg/L) Total Phosphorus (mg/L)	<1	2.7	X1.0	2.1	7.9
Total Phosphorus (mg/L)					
GROUP D ANALYTES					0.147
Cyanide		0.02	<0.005		0.147
GROUP E ANALYTES					
Phenois (ug/L)		10	<10.0		27
GROUP F ANALYTES	<0.100		<0.100		0.17
Aluminum Arsenic (mg/L)	<0.010		<0.010	<0.010	
Barium	<0.100		<0.100		0.1
Beryllium (mg/L)	<0.010	0.004	<0.010	<0.010 006 <0.001	
Cadmium (mg/L)			<1.0	300 10.001	50
Calcium Total Chromium (mg/L)	<0.050		<0.050	<0.050	
Cobalt	<0.100		<0.100	<0.100	0.054
Copper (mg/L)	<0.020	0.12	<0.020 <0.100		1.9
Iron (mg/L) Lead (mg/L)	<0.020	0.12	<0.020	<0.020	
Magnesium (mg/L)		16	<1.0		22
Manganese (mg/L)	<0.050		<0.050	<0.050 <0.001	
Mercury (mg/L)	<0.001 <0.100		<0.001 <0.100	<0.100	
Molybdenum Nickel (mg/L)	<0.050		<0.050	<0.050	
Silver (mg/L)		0.023		023	0.013
Titanium	<0.100		<0.100 <0.100	<0.100 <0.100	
Vanadium	<0.100 <0.050		<0.050	10.100	0.077
Zinc (mg/L)	40.000				
ON SITE ANALYSES					6.4
pH (units)			not performed		20
Temperature (°C)			not penotined		
GROUP G ANALYTES					
Acidity (total)		34		2	95 5482
Residue (total)		55	<1.0	44	190
Residue, nonfilterable TSS		92			184
			0.1000000	GN932089	
SAMPLE NUMBERS	GN932065 CN932069		GN932066 CN932070	CN932091	
	CN932067		CN932068	GN932090	
				W. 1 1 05 A 02	
VOLATILE COMPOUNDS (ug/L)	Tuesday, 26 Oct 93		Tuesday, 26 Oct 93 Equipment Blank <1.0	Wednesday, 25 Aug 93 <1.0	
Benzene Bromodichloromethane	<1.0 <1.0		<1.0	<1.0	
Bromoform	<1.0		<1.0	<1.0	
Bromomethane	<1.0		<1.0	<1.0 <1.0	
Carbon tetrachloride	<1.0 <1.0		<1.0 <1.0	<1.0	
Chlorobenzene Chloroethane	<1.0		<1.0	<1.0	
2-Chloroethyvinylether	<1.0		<1.0	<1.0	
Chloroform	<1.0		<1.0 <1.0	<1.0 <1.0	
Chloromethane Chlorodibromomethane	<1.0 <1.0		<1.0	<1.0	
1.2-Dichlorobenzene	<1.0		<1.0	<1.0	
1,3-Dichlorobenzene	<1.0		<1.0	<1.0	19.96
1,4-Dichlorobenzene	40	3.81	<1.0 <1.0	<1.0	13.30
Dichlorodifluoromethane 1,1-Dichloroethane	<1.0 <1.0		<1.0	<1.0	
	<1.0		<1,0	<1.0	
1,2-Dichloroethane			<1.0	<1.0	
1,1-Dichloroethene	<1.0			<10	
1,1-Dichloroethene Trans-1,2-Dichloroethene	<1.0 <1.0		<1.0	<1.0 <1.0	
1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane	<1.0 <1.0 <1.0			<1.0 <1.0	
1,1-Dichloroethene Trans-1,2-Dichloroethene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0	
1,1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.1.0 1.1 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.45	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.45	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Tnichloroethylene Tnichloroethylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.45	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2.2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichlorofluoromethane Vinyl Chloride	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.45	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichloroethylene Trichlorofluoromethane Vinyl Chloride m-Xylene	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.45	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	
1.1-Dichloroethene Trans-1,2-Dichloroethene 1,2-Dichloropropane Cis-1,3-Dichloropropane Cis-1,3-Dichloropropene Trans-1,3-Dichloropropene Ethylbenzene Methylene Chloride 1,1,2.2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichlorofluoromethane Vinyl Chloride	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	1.45	<pre><1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0</pre>	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	

TABLE DQ-1, POTABLE WATER SAMPLE Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993 Contributing Sources: WWTF Latrine

		Sources: www.r-Latrine		
000110	COLLECTION DATE			
GROUP A ANALYTES	Friday, 22 Oct 93	VOLATILE COMPOUNDS (ug/L)		
Ammonia		0.22 Benzene	<0.5	
Kjeldahl Nitrogen (total)		1.1 Bromodichloromethane		3.45
Nitrate		0.22 Bromoform		1.4
Nitrite	<.02	Bromomethane	<0.5	
Chemical Oxygen Demand (mg/L)	Not Requested	n-Butylbnezene	<0.5	
Oil and Grease (mg/L)	<.3	sec-Butylbenzene	<0.5	
Total Petroleum Hydrocarbon (mg/L)	<1	tert-Butylbenzene	<0.5	
Total Phosphorus (mg/L)	<.10	Carbon tetrachloride	<0.5	
ODOUD D ANNUATED		Chlorobenzene	<0.5	
GROUP D ANALYTES		Chloroethane	<0.5	
Cyanide	<.005	2-Chloroethyvinylether	<0.5	
OFFICIAL PROPERTY.		Chloroform	-	2.04
GROUP E ANALYTES		Chloromethane	<0.5	
Phenols (ug/L)	<10	Chlorodibromomethane		4,17
		2-Chlorotoluene	<0.5	
GROUP F ANALYTES		4-Chiorotoluene	<0.5	
Aluminum	<0.100	p-Cymene	<0.5	
Arsenic (mg/L)	<0.010	Dibromomethane	<0.5	
Barium	<0.100	1,2-Dichlorobenzene	<0.5	
Beryllium (mg/L)	<0.010	1,3-Dichlorobenzene	<0.5	
Cadmium (mg/L)	<0.001	1,4-Dichlorobenzene	<0.5	
Calcium		50 Dichlorodifluoromethane	<0.5	
Total Chromium (mg/L)	<0.050	1,1-Dichloroethane	<0.5	
Cobalt	<0.100	1,2-Dichloroethane	<0.5	
Copper (mg/L)	<0.020	1,1-Dichloroethene	<0.5	
Iron (mg/L)	<0.100	Cis-1,2-Dichloroethene	<0.5	
Lead (mg/L)	<0.020	Trans-1,2-Dichloroethene	<0.5	
Magnesium (mg/L)		20 1,3-Dichloropropane	<0.5	
Manganese (mg/L)	<0.050	2,2-Dichloropropane	<0.5	
Mercury (mg/L)	<0.001	1,1-Dichloropropane	<0.5	
Molybdenum	<0.100	1,2-Dichloropropane	<0.5	
Nickel (mg/L)	<0.050	Cis-1,3-Dichloropropene	<0.5	
Silver (mg/L)	<0.005	Trans-1,3-Dichloropropene	<0.5	
Titanium	<0.100	Ethylbenzene	<0.5	
Vanadium	<0.100	Hexachlorobutadiene	<0.5	
Zinc (mg/L)	<0.050	Isopropylbenzene	<0.5	
		Methylene Chloride	<0.5	
ON SITE ANALYSES		Naphthalene	<0.5	
pH (units)	Not Performed	n-Propylbenzene	<0.5	
Temperature (°C)	Not Performed	Styrene	<0.5	
		1,1,1,2-Tetrachloroethane	<0.5	
SAMPLE NUMBERS	GP932000	1,1,2,2-Tetrachloroethane	<0.5	
		Tetrachloroethylene	<0.5	
		Toluene	<0.5	
		1,2,3-Trichlorobenzene	<0.5	
		1,2,4-Trichlorobenzene	<0.5	
		1,1,1-Trichloroethane	<0.5	
		1,1,2-Trichloroethane	<0.5	
		Trichloroethylene	<0.5	
		Trichlorofluoromethane	<0.5	
		1,2,3-Trichloropropane	<0.5	
		1,2,4-trimethylbenzene	<0.5	
		1,3,5-Trimethylbenzene	<0.5	
		Vinyl Chloride	<0.5	
		m-Xylene	<0.5	
		o-Xylene	<0.5	
		p-Xylene	<0.5	
		Sample numbers	GP932001	

TABLE DQ-2, SPIKE SAMPLES

Base Survey: ELLSWORTH AIR FORCE BASE Survey Dates: 18-29 October 1993

Contributing Sources:

		my Sources.		
	COLLECTION DATE	COLLECTION DATE	Parameter Window	Reagent Blank
GROUP A ANALYTES	Tuesday, 25 Oct 93	Wednesday, 27 Oct 93		
Ammonia	9.			<0.2
Kjeldshl Nitrogen (mg/L)	8.			0.8
Nitrate		4 4		<0.1
Nitrite	<.02	<.02		< 0.02
Chemical Oxygen Demand (mg/L)	15			
Oil and Grease (mg/L)	36.	2 38.4		<.3
Total Petroleum Hydrocarbon (mg/L)	36.	2 38.4		<1.0
Total Phosphorus (mg/L)	4.	5.1		<0.10
GROUP D ANALYTES				
Cyanida	0.3	4	·	<0.005
GROUP E ANALYTES				
Phenois (ug/L)	17	1		<10.0
GROUP F ANALYTES				
Aluminum	0.1	9 0.18	1	< 0.100
Arsenic (mg/L)	0.04			< 0.010
Barium	0.2			< 0.100
Beryllium (mg/L)	0.0			< 0.010
Cadmium (mg/L)	0.00			0.001
Calcium	< 1.0	<1.0		<1.0
Total Chromium (mg/L)	0.8			< 0.050
Cobalt	<0.100	<0.100		< 0.100
Copper (mg/L)	0.07			< 0.02
Iron (mg/L)	0.1			< 0.100
Lead (mg/L)	< 0.020	0.068	· ·	< 0.02
Magnesium (mg/L)	< 1.0	<1.0		<1.0
Manganese (mg/L)	0.1			< 0.050
Mercury (mg/L)	0.00			< 0.001
Molybdenum	< 0.100	< 0.100		< 0.100
Nickel (mg/L)	0.09			< 0.050
Silver (mg/L)	0.03			< 0.005
Thallium	0.05			Not Performed
Titanium	<0.100	< 0.100	1	< 0.100
Vanadium	0.1			< 0.100
Zinc (mg/L)	0.08			< 0.100
ON SITE ANALYSES				+
pH (units)		3 3		Not Performed
GROUP G ANALYTES				
Acidity (total)				Not Performed
Residue (total)				Not Performed
Residue, nonfilterable			1	Not Performed
TSS		<u> </u>	<u> </u>	Not Performed
				
SAMPLE NUMBERS	GN932100	GN932124		GN931099
	GN932101	GN932125		1
		10	 	+

APPENDIX E ANALYSES AND PRESERVATION

WASTEWATER ANALYSES AND PRESERVATION METHODS

Analysis	Preservation	EPA Method <u>T</u>	Holding Time (days)
Purgeable Aromatics (VOAs)	4 ° C	602	14
Purgeable Hydrocarbons (VOHs)	4°C	601	
	4 0	001	14
Total Metals Arsenic Barium Beryllium Cadmium Chromium Chromium (VI) Copper Iron	HNO_3 HNO_3 HNO_3 HNO_3 HNO_3 HNO_3 HNO_3	206.2 200.7 210.1 213.1 218.1 218.1 220.1 236.1	180 180 180 180 180 180 180
Lead Mercury	HNO ₃ HNO ₃	239.1 245.1	180
Nickel	HNO_3	249.1	180 180
Silver Zinc	HNO ₃ HNO ₃	272.1	180
	111403	289.1	180
Cyanide	NaOH	335.3	14
Phenols	H_2SO_4 , 4°C	420.2	28
Oils & Greases	H_2SO_4 , 4 °C	413.2	28
Hydrocarbons, Total Petroleum	H ₂ SO ₄ , 4°C	418.1	28
Chemical Oxygen Demand, (COD)	H2S04, 4°C	STD METH 508C	28
Biochemical Oxygen Demand (BOD)	4 ° C	STD Method 521	0 24 hr
Hazardous Waste Characterization	No Preservation	1110,1120, 7.3.3.2, 7.3.4	.2 7
Purgeable Halocarbons	4 ° C	SW-846-8010	1
Purgeable Aromatic Hydrocarbons	4 ° C	SW-846 8020	14
Total Toxic Organics	4°C	624	14
Total Toxic Organics	4°C	625, 608	
3 = 3 -		023, 000	7

(CONTINUED)

NOTES:

4°C = Chilled to 4°C
HNO₃ = Add nitric acid to pH < 2.0
H₂SO₄ = Add sulfuric acid to pH < 2.0
NaOH = Add sodium hydroxide to pH > 12.0